

meeting will be convened on 4 April 2003 from 2 to 4 p.m. in the Dean Acheson Auditorium at the Department of State. The Department of State is located at 2201 C St., NW., Washington, DC.

Members of the public will be admitted and may join in the discussions subject to the instructions of the Chair. Entrance to the Department of State is controlled. Persons planning to attend the meeting should send the following data by fax to (202) 647-7407 or email to [worsleydm@state.gov](mailto:worsleydm@state.gov) not later than 24 hours before the meeting: (1) Name of the meeting, (2) your name, (3) social security number, (4) date of birth, and (5) organizational affiliation. One of the following current photo identifications must be presented to gain entrance to the Department of State: U.S. driver's license with your photo on it, U.S. passport, or U.S. Government identification. Directions to the Department of State may be obtained by calling the ITAC Secretariat at 202-647-2592 or emailing to [worsleydm@state.gov](mailto:worsleydm@state.gov).

Dated: March 26, 2003.

**Douglas R. Spalt,**

*International Telecommunications and Information Policy, Department of State.*

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## OFFICE OF THE UNITED STATES TRADE REPRESENTATIVE

### Exclusion of Particular Products From Actions Under Section 203 of the Trade Act of 1974 With Regard to Certain Steel Products; Conforming Changes and Technical Corrections to the Harmonized Tariff Schedule of the United States

**AGENCY:** Office of the United States Trade Representative.

**ACTION:** Notice.

**SUMMARY:** Pursuant to authority granted to the United States Trade Representative ("USTR") in Presidential Proclamation 7529 of March 5, 2002 (67 FR 10553), USTR has found that particular products should be excluded from actions under section 203 of the Trade Act of 1974, as amended, (19 U.S.C. 2253) ("Trade Act") with regard to certain steel products, and is modifying subchapter III of chapter 99 of the Harmonized Tariff Schedule of the United States (HTS) as set forth in the annex to this notice to implement these exclusions. In addition, pursuant to authority delegated to USTR in Presidential Proclamation 6969 of January 27, 1997 (62 FR 4415), USTR is

making technical corrections to subchapter III of chapter 99 of the Harmonized Tariff Schedule of the United States (HTS) as set forth in the annex to this notice. These modifications correct several inadvertent errors and omissions in the subheadings 9903.72.30 through 9903.74.24 of the HTS so that the intended tariff treatment is provided.

**EFFECTIVE DATE:** The modifications and corrections made in this notice are effective with respect to articles entered, or withdrawn from warehouse for consumption, on or after the dates set forth in each item in the annex to this notice.

**FOR FURTHER INFORMATION CONTACT:** Office of Industry, Office of the United States Trade Representative, 600 17th Street, NW., Room 501, Washington, DC 20508. Telephone (202) 395-5656.

**SUPPLEMENTARY INFORMATION:** On March 5, 2002, pursuant to section 203 of the Trade Act, the President issued Proclamation 7529, which imposed tariffs and a tariff-rate quota on (a) certain flat steel, consisting of: slabs, plate, hot-rolled steel, cold-rolled steel, and coated steel; (b) hot-rolled bar; (c) cold-finished bar; (d) rebar; (e) certain tubular products; (f) carbon and alloy fittings; (g) stainless steel bar; (h) stainless steel rod; (i) tin mill products; and (j) stainless steel wire, as provided for in subheadings 9903.72.30 through 9903.74.24 of the Harmonized Tariff Schedule of the United States ("HTS") ("safeguard measures") for a period of three years plus 1 day. Effective with respect to goods entered, or withdrawn from warehouse for consumption, on or after 12:01 a.m., EST, on March 20, 2002, Proclamation 7529 modified subchapter III of chapter 99 of the HTS so as to provide for such increased duties and a tariff-rate quota. Proclamation 7529 also delegated to the USTR the authority to consider requests for exclusion of a particular product submitted in accordance with the procedures set out in 66 FR 54321, 54322-54323 (October 26, 2001) and, upon publication in the **Federal Register** of a notice of his finding that a particular product should be excluded, to modify the HTS provisions created by the annex to that proclamation to exclude such particular product from the pertinent safeguard measure. On April 5, 2002, USTR published a notice in the **Federal Register** excluding particular products from the safeguard measures, and modified the HTS accordingly. 67 FR 16484. On July 3, the President issued Proclamation 7576, which extended the period for granting exclusions until

August 31, 2002. On July 12, 2002, and August 30, 2002, USTR published notices in the **Federal Register** excluding additional products from the safeguard measures, and modified the HTS accordingly. 67 FR 46221 and 67 FR 56182.

USTR has further considered exclusion requests for certain products designated as A600, A604, A605, A607, A609, A611, A613, A614, A615, A617, A619, A621, A623, A625, A626, A627, A629, A630, A631, A632, A634, A635, A641, A642, A643, A645, A646, A648, A649, A650, A655, A656, A661, A663, A667, A668, A669, A672, A673, A674, A675, A676, A677, A679, A680, A682, A684, A686, A688, A689, A692, A693, A694, A695, A697, A698, A699, A701, A705, A708, A709, A710, A711, A712, A714, A715, A717, A719, A721, A723, A725, A726, A728, A729, A732, A739, A742, A743, A744, A750, A751, A752, A754, A756, A765, A767, A769, A774, A779, A782, A786, A789, A791, A793, A805, A806, A807, A809, and A810. USTR finds that the exclusion from the safeguard measures established in Proclamation 7529 of certain steel products within these designations, as described in the annex to this notice, would not undermine the goals of those safeguard measures. Therefore, I find that these products should be excluded from those safeguard measures. Accordingly, under authority vested in the USTR by Proclamations 7529, I modify the HTS provisions created by the annex to Proclamation 7529 as set forth in the annex to this notice. Such modifications shall be embodied in the HTS with respect to goods entered, or withdrawn from warehouse for consumption, on the dates indicated in the annex to this notice.

On March 19, 2002, June 4, 2002, July 12, 2002, August 30, 2002, November 14, 2002, and February 11, 2003, USTR published Federal Register notices (67 FR 12635, 67 FR 38541, 67 FR 46221, 67 FR 56182, 67 FR 69065 and 68 FR 6982, respectively) making technical corrections to subchapter III of chapter 99 of the HTS to remedy several technical errors introduced in the annex to Proclamation 7529. These corrections ensured that the intended tariff treatment was provided. Since the publication of these Federal Register notices, additional technical errors and omissions in subchapter III of chapter 99 have come to the attention of USTR. The annex to this notice makes technical corrections to the HTS to remedy these errors and omissions. In particular, the annex to this notice corrects errors in the descriptions of the physical dimensions or chemical composition of certain products

excluded from the application of the safeguard measures and increases the quantitative levels for certain products subject to quantitative limits.

Proclamation 6969 authorized the USTR to exercise the authority provided to the President under section 604 of the Trade Act of 1974 (19 U.S.C. 2483) to

embody rectifications, technical or conforming changes, or similar modifications in the HTS. Under authority vested in the USTR by Proclamation 6969, the rectifications, technical and conforming changes, and similar modifications set forth in the annex to this notice shall be embodied

in the HTS with respect to goods entered, or withdrawn from warehouse for consumption, on or after the dates set forth in the annex to this notice.

**Robert B. Zoellick,**

*United States Trade Representative.*

**BILLING CODE 3190-01-P**

## ANNEX

Section I. Unless otherwise specified in a subdivision herein, the following modifications of subchapter III of chapter 99 of the Harmonized Tariff Schedule of the United States shall be effective with respect to goods entered, or withdrawn from warehouse for consumption, on or after 12:01 a.m. EST, on March 20, 2002 or, in the case of corrections in existing provisions, on or after the date of the inclusion in, or of the previous correction of, the individual HTS provision or text being corrected.

1. U.S. note 11 to such subchapter III is hereby modified as follows:

- (A) effective with respect to goods entered, or withdrawn from warehouse for consumption, on or after March 20, 2002, the phrase “, as in effect on March 20, 2002,” is inserted after the word “subchapter” in subdivisions (b)(i) and (b)(ii);
- (B) subdivision (b)(xxv)(B) is modified by deleting “600 t” and by inserting in lieu thereof “1,000 t”;
- (C) in subdivision (c)(xx)(C), “maximum” is inserted after “sulfur 0.025”;
- (D) subdivision (c)(xxi) is modified by deleting “50 t” and by inserting in lieu thereof “250 t”;
- (E) subdivision (c)(xxvii) is modified by inserting “not over” after “phosphorus” and after “sulfur”; by deleting “decarburization 4” and by inserting in lieu thereof “decarburization 6”; by deleting the text from “tensile” through “HRC)”, inclusive, and by inserting in lieu thereof the following: “tensile strength/hardness for product thickness of not over 2.0 mm of 1450 +/-100 N/mm<sup>2</sup> (42 to 46 HRC) or 1670 +/- 100 N/mm<sup>2</sup> (42 to 46 HRC), and for product thickness 2.0 mm and over of 1370 +/- 100 N/mm<sup>2</sup> (40 to 44 HRC)”; by deleting the text from “product width of” through “3 m”, inclusive, and by inserting in lieu thereof the following: “for product width not over 40 mm, maximum deviation of 0.35 mm on 1.0 m and maximum 3.2 mm on 3 m; for product width over 40 mm but not over 134 mm, maximum deviation of 0.25 mm on 1 m and maximum 1.2 mm on 3 m; for product width over 135mm, maximum deviation of 0.25 mm on 1 m and maximum 0.8 on 3 m;” and by deleting “within g a product maximum half the tolerance zone for T1” and by inserting in lieu thereof “within one coil half the tolerance zone for T1”;
- (F) subdivision (c)(xxviii)(A) is modified by deleting “0.002 mm” and by inserting in lieu thereof “0.05 mm”;
- (G) subdivision (c)(lxviii) is modified by deleting “10 t” and by inserting in lieu thereof “1,165 t”;
- (H) in subdivision (c)(lxxiii)(C), “manganese 0.70” is deleted and “manganese 0.07” is inserted in lieu thereof;

- (J) in subdivisions (c)(clvii)(A), (c)(clvii)(B) and (c)(clvii)(C), “width of 228 mm to 305 mm” is deleted at each occurrence and “width of 1,397.0 mm to 1,422.4 mm” is inserted in lieu thereof;
- (K) in subdivision (c)(cxlv), “JIS-G3445” is deleted and “JIS-G3444” is inserted in lieu thereof; “maximum” is inserted after “carbon 0.25”;
- (L) in subdivision (c)(lxvii), “0.350 mm in thickness” is deleted and “0.378 mm in thickness” is inserted in lieu thereof;
- (M) subdivision (c)(clxxxii) is modified by deleting “1,000 t” and by inserting in lieu thereof “3,000 t”; and
- (N) in subdivision (c)(cxc), “phosphorus less than 0.014 percent” is deleted and “phosphorus not over 0.015” is inserted in lieu thereof, and “sulfur less than 0.003” is deleted and “sulfur not over 0.005” is inserted in lieu thereof.

2. The following subheadings of such subchapter III are each modified as follows:

- (A) subheading 9903.72.97 is modified by deleting from the article description “600 t” and by inserting in lieu thereof “1,000 t”;
- (B) subheading 9903.75.04 is modified by deleting “1,000 t” and by inserting in lieu thereof “3,000 t”;
- (C) subheading 9903.76.86 is modified by deleting “50 t” and by inserting in lieu thereof “250 t”;
- (D) subheading 9903.76.79 is modified by deleting “300 t” and by inserting in lieu thereof “500 t”; and
- (E) subheading 9903.77.32 is modified by deleting “10 t” and by inserting in lieu thereof “1,165 t”.

Section II. The following new exclusions being inserted in and other modifications of subchapter III of chapter 99 of the Harmonized Tariff Schedule of the United States shall be effective with respect to goods entered, or withdrawn from warehouse for consumption, on or after 12:01 a.m. EST, on March 20, 2003:

1. The following new subdivisions are inserted at the end of U.S. note 11(c) to subchapter III of chapter 99 of the HTS:

- “(ccxiii) cold-rolled coiled flat rolled steel, designated as A-613, the foregoing 2.96 mm to 3.01 mm in thickness; 620 mm wide plus or minus 1 mm; hardness of 202 to 214 HB; having the following chemical composition (percent by weight): chromium 0.4 to 0.7, vanadium 0.15 to 0.25, sulfur not over 0.03, phosphorus not over 0.03, manganese 0.3 to 0.5, silicon 0.25 to 0.4, carbon 0.75 to 0.85 and not over 0.03 aluminum;
- (ccxiv) Cold finished nonalloy steel bar of circular cross section, designated as A-611, diameter not greater than 81 mm, surface hardened, precision ground, chemical composition (expressed as percent by weight): carbon 0.50 to 0.57, silicon 0.15 to 0.35, manganese 0.40 to 0.70, phosphorus not greater than 0.025, sulfur not greater than 0.035 and aluminum 0.02 to 0.08; with the following other properties: grain size of 6 or finer as per DIN 50601; hardness HV 670 to 840; surface finish maximum RMS 12; and minimum hardness depth of 0.4 mm;
- (ccxv) flat-rolled steel products, not further worked than cold-rolled, designated as A-623 and entered in an aggregate annual quantity not to exceed 15,000 t, the foregoing meeting either of the following sets of characteristics:
- (i) grade ASTM A366-97-B, coated with 5 to 15 mg/m<sup>2</sup> of di octyl sebacate oil, meeting the following specifications: thickness 0.40 mm to 1.40 mm; width 711 mm to 1,281 mm; having the following chemical composition (percent by weight): carbon 0.02 to 0.08, manganese not over 0.60, phosphorus not over 0.030 and sulfur not over 0.025; with the following mechanical properties: minimum tensile strength of 269 MPa; maximum yield point of 262 MPa; minimum elongation of 30 percent; Rockwell hardness 48-56 (B scale); and restricted gauge accuracy of 1/4 ASTM; or
- (ii) grade ASTM A366-97, coated with 5 to 15 mg/m<sup>2</sup> di octyl sebacate oil, meeting the following specifications: thickness 0.40 mm to 1.40 mm and width 832 mm to 1,499 mm; having the following chemical composition (percent by weight): carbon 0.02 to 0.08, manganese not over 0.50, phosphorus not over 0.025 and sulfur not over 0.025; with the following mechanical properties: minimum tensile strength of 268.9 MPa; minimum yield point of 255.1 MPa; minimum elongation of 32 percent; Rockwell hardness 43-55 (B scale); and restricted gauge accuracy 1/4 ASTM;
- (ccxvi) unhardened low carbon cold-rolled flat-rolled steel products (soft magnetic iron), designated as A-626 and entered in an aggregate annual quantity not exceed 3 t; thickness range less than or equal to 5 mm, width not over 300 mm, chemical composition (percent by weight): carbon 0.015 to 0.027, silicon not over 0.05, manganese 0.12 to 0.22, phosphorus not over 0.012, sulfur not over 0.025 and chromium not over 0.05; tensile strength of 120 MPa or more but not over 580 MPa; surface finish: Ra not over 0.25 micrometer;
- (ccxvii) cold-rolled steel products, in coils per ASTM A625M T3, designated as A-643 and entered in an aggregate annual quantity not to exceed 8,000 t, the foregoing with a matte finish, continuously annealed, thermal flattened, with the following characteristics: thickness 0.254 mm to 0.381 mm and width 254 mm to 1016 mm; having the following chemical composition (percent by weight): carbon 0.02 to 0.05, manganese 0.18 to 0.45, phosphorus not over 0.015, sulfur not over 0.025, copper not over 0.10 and aluminum 0.020 to 0.075; having a temper of T3 or 52 to 62 on the Rockwell 30T scale; with the following other properties: average coil gauge down the center of the sheet the ordered gauge thickness +/- 0.0076 mm; gauge variation measured on any longitudinal line down the length of a single coil not to exceed 0.01016 mm total; the crown of the coil not to exceed 0.01016 mm when measured along any straight line across the width of the coil (but at least 25.4 mm away from the edge); coil width tolerance + 3.175 mm, - 0 mm; carrying a uniform but minimal amount of D.O.S. or S.2 type oil on all surfaces; surface smooth and free from lamination, deep scratches, pits, scale, rolled in particles, weld joints, edge cracks, holes and excessive edge-wave; thoroughly recrystallized and have a uniform grain size not exceeding ASTM 5; all other tolerances as per ASTM A625;
- (ccxviii) cold-rolled flat-rolled steel in coils, grade SAE J1392 045YLF, designated as A-645 and entered in an aggregate annual quantity not to exceed 5,000 t, the foregoing meeting the following criteria: thickness 1.25 mm to 1.65 mm; width 1,140 mm to 1,270 mm; bright finish of Ra value of 0.0 to 0.4 micrometer; surface cleanliness defined as surface carbon of 4 mg/m<sup>2</sup> per side maximum; hydrogen annealed; with maximum yield-to-tensile ratio of 80 percent; and elongation of 24 percent minimum;
- (ccxix) cold-rolled flat-rolled high strength steel, non-alloy, designated as A-655 and entered in an aggregate annual quantity not to exceed 4,000 t; the foregoing with a temper pass of 3.75 percent to 4.25 percent reduction after annealing to result in the following mechanical requirements: yield strength at 240 MPa to 340 MPa; tensile strength 310 MPa to 365 MPa; elongation of 33 percent or more; R value of 1.64 to 2.15 and N value of 0.14 to 0.165; prelube required to be applied; thickness 1.7729 mm to 1.8846 mm; coil width 1,377 mm to 1,410 mm; having the following chemical composition (percent by weight): carbon not over 0.15, manganese not over 0.60, phosphorus not over 0.030 and sulfur not over 0.035;

- (ccxx) cold-rolled flat-rolled products, designated as A-656 and entered in an aggregate annual quantity not to exceed 120 t; the foregoing meeting the following characteristics: thickness range of 0.30 to 0.40 mm; width not over 5 mm; having the following chemical composition (percent by weight): carbon 0.040 to 0.080, manganese 0.20 to 0.30, phosphorus not over 0.03, sulfur not over 0.030 and aluminum 0.04 to 0.06; mechanical properties: yield point (MPa) of 185 to 280; minimum tensile strength (MPa) of 270; and minimum elongation of 28 percent;
- (ccxxi) cold-rolled flat-rolled measuring tape steel products, designated as A-710, the foregoing of SAE 1095, having the following chemical composition (percent by weight): carbon 0.90 to 1.05, silicon 0.15 to 0.35, manganese 0.30 to 0.60, sulfur less than 0.050 and phosphorus less than 0.2; width 4.76 mm to 38.1 mm; thickness 0.114 mm to 0.1542 mm (tolerance +/-0.005 mm); tensile strength 800 to 1,100 MPa; edge deburred, Vickers Hardness Range 210 to 650;
- (ccxxii) cold-rolled hardened and tempered flat-rolled steel products, designated as A-714, the foregoing of grade AISI 1095 modified by expanding carbon and decreasing sulfur; having the following chemical composition (percent by weight): carbon 0.9 to 1.05, silicon 0.15 to 0.35, manganese 0.30 to 0.50, phosphorus not over 0.03 and sulfur not over 0.006; width not over 153 mm; thickness 0.8 mm to 1.35 mm; blue polished surface; surface roughness not over 5.0 micrometers; ultimate tensile strength 1,400 MPa to 1,500 MPa; edges deburred or machined; straightness 0.6 to 1.2 mm over 3 m; flatness equal or less than 0.1 percent of the product width;
- (ccxxiii) cold-rolled heat-treatable flat-rolled steel products, designated as A-714, the foregoing of grade AISI 1050 modified (as described by the chemical composition) with a decarburized surface; produced by open coil batch annealing facilities for decarburizing, decarburization depths of 10 to 300 micrometers with adjusted carbon transition gradient; having the following chemical composition (percent by weight): carbon 0.44 to 0.55, chromium 0 to 0.40, manganese 0.60 to 0.80, silicon 0.15 to 0.35, phosphorus not over 0.025, sulfur not over 0.01, aluminum less than 0.05; thickness 0.50 mm to 2.00 mm; width 300 mm to 800 mm; not hardened and with low carbon surface (less than 0.1 percent carbon); thickness tolerance T3 and better; yield strength 450 MPa or more; tensile strength 500 MPa or more but not over 850 MPa;
- (ccxxiv) cold-rolled heat-treatable flat-rolled steel products, designated as A-714, the foregoing of grade AISI 1065 modified (as described by the chemical composition) with a decarburized surface; produced by open coil batch annealing facilities for decarburizing, decarburization depths of 10 mm to 300 micrometers with adjusted carbon transition gradient; having the following chemical composition (percent by weight): carbon 0.56 to 0.70, chromium 0 to 0.40, manganese 0.60 to 0.80, silicon 0.15 to 0.35, phosphorus not over 0.025, sulfur not over 0.01 and aluminum less than 0.05; thickness 0.50 mm to 2.00 mm; width 300 mm to 800 mm; not hardened and with low carbon surface (less than 0.1 percent carbon); thickness tolerance T3 and better; yield strength 450 MPa or more; tensile strength 500 MPa or more but not over 850 MPa;
- (ccxxv) cold-rolled heat-treatable flat-rolled steel products, designated as A-714, the foregoing of grade AISI 1074 modified (as described by the chemical composition) with decarburized surface; produced by open coil batch annealing facilities for decarburizing, decarburization depths of 10 to 300 micrometer with adjusted carbon transition gradient; having the following chemical composition (percent by weight): carbon 0.69 to 0.80, chromium 0 to 0.40, manganese 0.60 to 0.80, silicon 0.15 to 0.35 and aluminum less than 0.05; thickness 0.50 mm to 2.00 mm; width 300 mm to 800 mm; not hardened and with low carbon surface (less than 0.1 percent carbon); thickness tolerance: T3 and better; yield strength of not less than 450 MPa; tensile strength of 500 MPa or more but not over 850 MPa;
- (ccxxvi) cold-rolled plating quality steel, designated as A-721 and entered in an aggregate annual quantity not to exceed 3,600 t; the foregoing meeting the following characteristics: thickness of 0.66 mm, 0.75 mm, 0.90 mm, 1.08 mm, 1.38 mm or 1.85 mm, each with a tolerance of +3 percent / -0 percent; width of not less than 1,092 mm and not over 1,219 mm; having the following chemical composition (percent by weight): carbon 0.02 or more but not over 0.05, phosphorus not over 0.03, manganese not over 0.6 and sulfur not over 0.035; with the following properties: surface finish bright, suitable for nickel chrome plating, free from pits, scratches, rust, cracks, or seams, with a surface finish of RMS6 or better; hardness not less than 45Rb and not over 55Rb;
- (ccxxvii) cold-rolled flat-rolled steel products, designated as A-756 and entered in an aggregate annual quantity not to exceed 930 t, the foregoing single reduced; T-4 temper; continuous annealed; type MR chemistry; 5C Matte Finish; having a thickness 0.211 mm and width 1073.15 mm to 1219.20 mm or a thickness of 0.239 mm and width of 1092.20 mm or a thickness of 0.312 mm and width of 1104.9 mm to 1193.8 mm; thickness tolerance of plus 5 percent and minus 8 percent; width tolerance of minus 0 mm and plus 3.175 mm; otherwise produced according to ASTM A623-00 and A625-98; certified by the importer that such products will be slit into two coils, each of which is 533.40 mm or more but not over 609.60 mm wide for use in the manufacturing of engine gaskets;

- (ccxxviii) cold-rolled black flat-rolled products, designated as A-756 and entered in an aggregate annual quantity not to exceed 100 t, the foregoing single reduced; T-4 temper; continuous annealed; type MR chemistry; 5C Matte Finish; thickness 0.378 mm, plus 5 percent and minus 8 percent tolerances; width 1,155.7 mm, minus 0 and plus 3.175 mm tolerances; otherwise produced to ASTM A623-00 and A625-98; certified by the importer that such products will each be slit into two coils each measuring from 508.00 mm to 635.00 mm wide for use in the manufacturing of engine gaskets;
- (ccxxix) cold-rolled flat-rolled, designated as A-626, the foregoing of grade AISI 1095, having the following chemical composition (percent by weight): carbon 0.90 to 1.00, silicon 0.20 to 0.35, manganese 0.55 to 0.75, phosphorus 0.020 maximum, sulfur 0.015 maximum, chromium 0.55 to 0.75 and vanadium 0.15 to 0.25; width 4 mm to 40 mm; thickness 0.20 to 0.70 mm; straightness deviation for width less than 8 mm a maximum of 27 mm per 3,000 mm, for width 8 to less than 20 mm a maximum of 18 mm per 3,000 mm, width 20 to 40 mm maximum of 13.5 mm per 3,000 mm; flatness deviation: maximum of 0.3 percent of width; surface finish: bright polished surface free from oxide, discoloration and harmful defects, Ra 0.2 to 0.6 micrometer; edges: fine machined square edges; microstructure: matrix of fine needled tempered martensite with approximately 7 percent residual carbides; tensile strength: 1,550 plus or minus 100 N/mm<sup>2</sup>;
- (ccxxx) cold-rolled hardened and tempered flat-rolled, designated as A-626, the foregoing of grade AISI 1095; having the following chemical composition (percent by weight): carbon 0.95 to 1.05, silicon 0.20 to 0.35, manganese 0.35 to 0.50, phosphorus not over 0.015 and sulfur not over 0.010; thickness not over 1.00 mm, width not over 300 mm; microstructure being acicular tempered martensite with 3 to 7 percent by volume of spheroidized and uniformly distributed cementite (undissolved carbides) in sizes below 3 micrometers, partial decarburization (fully martensitic) allowed to a depth of 6 percent of thickness; flatness deviation along the rolling direction 0.3 percent of the length maximum; surface finish for thicknesses up to and including 0.381 mm Ra not more than 0.13 micrometer, for thicknesses above 0.381 mm Ra is not more than 0.25 micrometer;
- (ccxxxi) bright or blue polished printing doctor blade steel, designated as A-626; the foregoing with thickness not over 0.305 mm, width not over 100 mm; having the following chemical composition (percent by weight): carbon 0.95 to 1.05, silicon 0.20 to 0.35, manganese 0.60 to 0.80, phosphorus not over 0.02, sulfur not over 0.005 and chromium 0.25 to 0.40; microstructure a matrix of fine needled tempered martensite with approximately 10 percent uniformly dispersed residual carbides; surface finish in bright or blue polished finish, free from pits, scratches, rust, cracks or seams; smooth, rounded or beveled edges; edge camber (in each 3000 mm of length) of not greater than 1 mm arc height; cross bow no greater than 0.3 percent of product width; in coils;
- (ccxxxii) cold-rolled unhardened flat-rolled products, designated as A-626, the foregoing of grade AISI 1095; having the following chemical composition (percent by weight): carbon 0.95 to 1.05, silicon 0.20 to 0.35, manganese 0.25 to 0.40, phosphorus not over 0.020, sulfur not over 0.001 and chromium 1.35 to 1.5; thickness not over 2 mm, width not over 300 mm; hardness H Rb 95 maximum; tensile strength 480 MPa or more but not over 680 MPa; surface finish: Ra not over 0.25 micrometer;
- (ccxxxiii) cold-rolled hardened and tempered flat-rolled products, designated as A-626, the foregoing of grade AISI 1075, having the following chemical composition (percent by weight): carbon 0.62 to 0.72, silicon 1.20 to 1.40, manganese 0.40 to 0.60, phosphorus not over 0.020, sulfur not over 0.010 and chromium 0.40 to 0.60; thickness not over 2.5 mm, width not over 300 mm; Vickers hardness 440 to 650; tensile strength 1,460 MPa or more but not over 2,210 MPa; surface finish: Ra not more than 0.25 micrometer for thicknesses not over 0.381 mm, Ra not more than 0.5 micrometer for thicknesses 0.381 mm or more but not over 2.5 mm;
- (ccxxxiv) cold-rolled creasing knife flat-rolled products, designated as A-626, the foregoing with round edge, in straight length, curved or coiled; body microstructure bainitic hardened to 370 plus or minus 20HV; with machined or ground round creasing edge of a knife; width 8.0 mm to 100.0 mm, thickness 0.4 mm to 2.13 mm (thickness tolerance plus or minus 0.015 for thickness 0.4 mm to 0.71 mm, or plus or minus 0.020 mm for thickness 1.05 mm to 2.13 mm; width tolerance plus or minus 0.020 mm for width 8.0 mm to 25.3 mm, plus or minus 0.025 mm for width 25.4 mm to 50.7 mm or plus or minus 0.030 mm for width 50.8 mm to 100.0 mm); cross camber 0.0005 mm/mm rule height maximum; straightness 0.3/1,000 mm rule length maximum; flatness 5 mm/1,000 mm rule length maximum; decarburization zone on both strip surfaces of 0.01 to 0.04 mm; having the following chemical composition (percent by weight): carbon 0.35 to 0.45, silicon 0.10 to 0.45, manganese 0.50 to 0.85, phosphorus less than 0.04, sulfur less than 0.03, chromium 0.05 to 0.30, molybdenum less than 0.05, nickel less than 0.30 and copper less than 0.30;
- (ccxxxv) cold-rolled rule steel flat-rolled products, designated as A-626, the foregoing in straight lengths, curved or coiled, with a cutting edge; body microstructure bainitic hardened to either 320 plus or minus 15 or 400 plus or minus 20 HV or 450 plus or minus 20HV or 525 plus or minus 25 HV; machined or a ground sharp cutting edge, high frequency or plasma hardened to 620 plus or minus 30 HV or same as body hardness; cutting edge having a specific cutting angle of

30 to 60 degrees; having the following chemical composition (percent by weight): carbon 0.53 to 0.57, silicon 0.10 to 0.35, manganese 0.60 to 0.75, phosphorus less than 0.02, sulfur less than 0.01, chromium 0.10 to 0.20, molybdenum less than 0.05, nickel less than 0.10, copper less than 0.10 and aluminum 0.015 to 0.035; width 8.0 to 100.0 mm, thickness 0.4 to 2.13 mm (thickness tolerance: plus or minus 0.015 mm for thickness 0.4 to 0.71 mm, or plus or minus 0.020 mm for thickness 1.05 to 2.13 mm; width tolerance plus or minus 0.020 mm for width 8.0 to 25.3 mm, plus or minus 0.025 mm for width 25.4 to 50.7 mm, or plus or minus 0.030 mm for width 50.8 to 100.0 mm); cross camber 0.0005 mm/mm rule width maximum; straightness 0.3/1,000 mm rule length maximum; flatness 5 mm/1,000 mm rule length maximum; decarburization on strip surfaces 0.01 to 0.04 mm;

- (ccxxxvi) cold-rolled flat-rolled steel products, designated as A-632, the foregoing described as DIN125 Cr1; thickness not over 1.00 mm, width not over to 40 mm; having the following chemical composition (percent by weight): carbon 1.22 to 1.32, silicon 0.20 to 0.35, manganese 0.20 to 0.40, phosphorus not over 0.025, sulfur not over 0.010, chromium 0.20 to 0.35 and aluminum not over 0.015; carbides fully spheroidized, having greater than 80 percent of carbides; treated edges, surface finish is blue or bright finish free from pits, scratches, rust, cracks, or seams; edge camber (in each 3,000 mm of length) not greater than 12.70 mm arc height; cross bow (per mm of width) not greater than 0.025 mm; hardness (15N) of 72 to 82.5;
- (ccxxxvii) cold-rolled flat-rolled steel products, designated as A-632, the foregoing SAE 1050 modified, having the following chemical composition (percent by weight): carbon 0.47 to 0.60, silicon 0.15 to 0.30, manganese 0.60 to 0.90, phosphorus not over 0.020, sulfur not over 0.015 and aluminum not over 0.020; thickness not less than 0.305 mm nor more than 3.175 mm; width not less than 31.75 mm nor more than 500.00 mm; microstructure spheroidized annealed with skin pass; surface finish is bright, roughness not greater than Ra 0.60 micrometer on both sides; edge finish slit or deburred; flatness less than 0.6 percent of the product width; camber (in each 1,000 mm of length) of not greater than 2.00 mm arc height; and cross bow (per mm of width) of not greater than 3.00 mm; hardness not greater than HRB 85; tensile strength not greater than 582 MPa;
- (ccxxxviii) cold-rolled flat-rolled steel products, designated as A-645, the foregoing with transformation induced plasticity (TRIP) effect, microstructure with retained austenite; width 630 mm to 1,400 mm, thickness 3 mm to 4 mm; tensile strength greater than 800 MPa, elongation greater than 23 percent; having the following chemical composition (percent by weight): carbon less than 0.5, manganese not over 2.00, silicon 0.60 to 2.00 and sulfur not over 0.01;
- (ccxxxix) cold-rolled flat-rolled magnetic alloy products, designated as A-648, the foregoing containing (percent by weight) 7.4 to 8.4 percent manganese, not over 0.05 percent carbon, no other individual element (except iron) over 0.30 percent and balance iron; mechanical properties yield strength 880 to 1,650 N/mm<sup>2</sup>, ultimate tensile strength 980 to 2,000 N/mm<sup>2</sup>, 1 to 20 percent elongation; cold-rolled coils; thickness 0.193 to 0.213 mm, width 250.0 to 380.0 mm; surface oiled to prevent rust;
- (ccxli) cold-rolled flat-rolled steel products, designated as A-694; having the following chemical composition (percent by weight): carbon not over 0.19, silicon not over 1.60, manganese not over 2.25, phosphorus not over 0.02 and sulfur not over 0.010; tensile strength 980 N/mm<sup>2</sup> or more but not over 1,080 N/mm<sup>2</sup>; and stretch flangeability at least 30 percent; meeting one of the following sets of properties:
- (i) thickness 0.8 mm or more but not over 1.0 mm; yield strength 700 N/mm<sup>2</sup> or more but not over 850 N/mm<sup>2</sup>; elongation 11 percent or more but not over 20 percent;
  - (ii) thickness 1.0 mm or more but not over 1.2 mm; yield strength 690 N/mm<sup>2</sup> or more but not over 850 N/mm<sup>2</sup>; elongation 12 percent or more but not over 21 percent;
  - (iii) thickness 1.2 mm or more but not over 1.6 mm; yield strength 690 N/mm<sup>2</sup> or more but not over 850 N/mm<sup>2</sup>; elongation 13 percent or more but not over 22 percent; or
  - (iv) thickness 1.6 mm or more but not over 2.3 mm; yield strength 690 N/mm<sup>2</sup> or more but not over 850 N/mm<sup>2</sup>; elongation at least 13 percent;
- (ccxlii) cold-rolled flat-rolled steel products, designated as A-694, having the following chemical composition (percent by weight): carbon not over 0.19, silicon not over 1.60, manganese not over 2.25, phosphorus not over 0.020 and sulfur not over 0.010; tensile strength 980 N/mm<sup>2</sup> or more but not over 1,060 N/mm<sup>2</sup>; yield strength 590 N/mm<sup>2</sup> or more but not over 730 N/mm<sup>2</sup>; and elongation 13 percent or more but not over 20 percent; meeting one of the following sets of properties:



- (i) thickness at least 0.8 mm but not greater than 1.0 mm; yield strength at least 590 N/mm<sup>2</sup> but not greater than 730 N/mm<sup>2</sup>; and elongation at least 13 percent but not greater than 20 percent;
  - (ii) thickness at least 1.0 mm but not greater than 1.2 mm; yield strength at least 580 N/mm<sup>2</sup> but not greater than 730 N/mm<sup>2</sup>; and elongation at least 14 percent but not greater than 21 percent;
  - (iii) thickness at least 1.2 mm but not greater than 1.6 mm; yield strength at least 580 N/mm<sup>2</sup> but not greater than 730 N/mm<sup>2</sup>; and elongation at least 14 percent but not greater than 22 percent; or
  - (iv) thickness at least 1.6 mm but not greater than 2.3 mm; yield strength at least 580 N/mm<sup>2</sup> but not greater than 730 N/mm<sup>2</sup>; and elongation at least 14 percent;
- (ccxlii) cold-rolled flat-rolled steel products, designated as A-694, the foregoing with thickness 1.0 mm or more but not over 2.3 mm; having the following chemical composition (percent by weight): carbon not over 0.09, silicon not over 1.0, manganese not over 3.00, phosphorus not over 0.012 and sulfur not over 0.005; tensile strength 980 N/mm<sup>2</sup> or more but not over 1080 N/mm<sup>2</sup>; yield strength 800 N/mm<sup>2</sup> or more but not over 980 N/mm<sup>2</sup>; elongation 6 percent or more but not over 14 percent; stretch flangeability at least 70 percent;
- (ccxliii) cold-rolled flat-rolled steel products, designated as A-694, the foregoing having the following chemical composition (percent by weight): carbon not over 0.10, silicon not over 0.80, manganese not over 2.5, phosphorus not over 0.015 and sulfur not over 0.010; tensile strength at least 780 N/mm<sup>2</sup>; meeting one of the following sets of properties:
- (i) thickness at least 0.6 mm but not greater than 0.8 mm; yield strength at least 420 N/mm<sup>2</sup> but not greater than 645 N/mm<sup>2</sup>; and elongation at least 14 percent but not greater than 25 percent;
  - (ii) thickness at least 0.8 mm but not greater than 1.0 mm; yield strength at least 410 N/mm<sup>2</sup> but not greater than 635 N/mm<sup>2</sup>; and elongation at least 15 percent but not greater than 26 percent;
  - (iii) thickness at least 1.0 mm but not greater than 1.2 mm; yield strength at least 400 N/mm<sup>2</sup> but not greater than 625 N/mm<sup>2</sup>; and elongation at least 16 percent but not greater than 27 percent;
  - (iv) thickness at least 1.2 mm but not greater than 1.6 mm; yield strength at least 400 N/mm<sup>2</sup> but not greater than 625 N/mm<sup>2</sup>; and elongation at least 17 percent but not greater than 28 percent; or
  - (v) thickness at least 1.6 mm but not greater than 2.3 mm; yield strength at least 400 N/mm<sup>2</sup> but not greater than 625 N/mm<sup>2</sup>; and elongation at least 18 percent;
- (ccxliv) cold-rolled flat-rolled steel products, designated as A-694, the foregoing having the following chemical composition (percent by weight): carbon not over 0.16, silicon not over 0.80, manganese not over 2.60, phosphorus not over 0.012 and sulfur not over 0.010; tensile strength at least 1180 N/mm<sup>2</sup>; meeting one of the following sets of properties:
- (i) thickness at least 0.8 mm but not greater than 1.0 mm; yield strength at least 835 N/mm<sup>2</sup> but not greater than 1,225 N/mm<sup>2</sup> and elongation at least 5 percent but not greater than 10 percent;
  - (ii) thickness at least 1.0 mm but not greater than 1.2 mm; yield strength at least 825 N/mm<sup>2</sup> but not greater than 1,215 N/mm<sup>2</sup>; and elongation at least 5 percent but not greater than 17 percent;
  - (iii) thickness at least 1.2 mm but not greater than 1.6 mm; yield strength at least 825 N/mm<sup>2</sup> but not greater than 1,215 N/mm<sup>2</sup>; and elongation at least 7 percent but not greater than 18 percent; or
  - (iv) thickness at least 1.6 mm but not greater than 2.3 mm; yield strength at least 825 N/mm<sup>2</sup> but not greater than 1,215 N/mm<sup>2</sup>; and elongation at least 8 percent;
- (ccxlv) bright finish cold-rolled saw steel products, designated as A-711, the foregoing flat-rolled; thickness not over 4.0 mm; width not over 710 mm; having the following chemical composition (percent by weight): carbon 0.70 to 0.80, silicon 0.25 to 0.50, manganese 0.60 to 0.80, phosphorus not over 0.035, sulfur not over 0.035 and chromium 0.30 to 0.45; through-hardened to 40 to 50 HRC with a tolerance of +/- 2HRC; thickness tolerance of +/- 0.03 mm; surface finish bright finish free from pits, cracks or seams; smooth edges; cross bow (per mm of width) not greater than 0.0015 mm;
- (ccxlvii) bright finish cold-rolled flat-rolled chrome-vanadium saw steel, designated as A-711, the foregoing with thickness not over 4.0 mm, width not over 710 mm; having the following chemical composition (percent by weight): carbon 0.75 to

0.85, silicon 0.25 to 0.45, manganese 0.30 to 0.85, phosphorus not over 0.035, sulfur not over 0.035, chromium 0.40 to 0.70 and vanadium 0.15 to 0.25; through-hardened to 40 to 50 HRC with a tolerance of  $\pm 2$  HRC; thickness tolerance of  $\pm 0.03$  mm; surface finish bright finish free from pits, cracks or seams; smooth edges; cross bow (per mm of width) not greater than 0.0015 mm;

- (ccxlvi) cold-rolled hardened and tempered flat-rolled steel products, designated as A-714, the foregoing of grade AISI 1095 modified by expanding carbon and decreasing sulfur; having the following chemical composition (percent by weight): carbon 0.90 to 1.05, silicon 0.15 to 0.35, manganese 0.30 to 0.50, phosphorus 0.03 maximum and sulfur 0.006 maximum; thickness 0.5 to 1.00 mm, thickness tolerance 0.024 mm, width not over 152.4 mm; ultimate tensile strength at least 1590 N/mm<sup>2</sup>; flatness less than or equal 0.2 percent of the product width; microstructure completely free from decarburization, carbides are spheroidal and fine within 1 percent to 4 percent per square meter in the uniform tempered martensite; nonmetallic inclusions; sulfide inclusions maximum 0.04 percentage per square meter and oxide inclusions maximum 0.05 percentage per square meter; surface roughness arithmetic maximum 0.25 micrometer, surface roughness maximum 2.5 micrometer;
- (ccxlvi) cold-rolled flat-rolled steel products, designated as A-714, having the following chemical composition (percent by weight): carbon 0.10 or more but not over 0.15, manganese 0.50 or more but not over 0.70, phosphorus not over 0.025, sulfur not over 0.025, chromium 0.2 or more but not over 0.4, nickel 0.2 or more but not over 0.4 and aluminum 0.02 or more but not over 0.07; tensile strength not less than 448 MPa not more than 496 MPa; Rockwell hardness B 65 to 75; minimum elongation 35 percent; maximum average scratch depth 0.35 micrometer; thickness at least 0.80 mm but not more than 1.50 mm; width not less than 330 mm nor more than 429 mm;
- (ccxlix) cold-rolled flat-rolled measuring tape steel products, designated as A-723, the foregoing produced to specification JIS SK-4; thickness 0.114 mm to 0.152 mm (plus or minus 0.005 mm); having the following chemical composition (percent by weight): carbon 0.94 to 1.00, silicon 0.15 to 0.30, manganese 0.40 to 0.50, phosphorus not over 0.022, sulfur not over 0.010, copper not over 0.08, nickel not over 0.08, chromium 0.10 to 0.25 and aluminum not over 0.010; Vickers hardness HV 290 plus or minus 20; tensile strength 800 to 1100 N/mm<sup>2</sup>; surface roughness (RZ) not more than 1 micrometer; quantity of cementite minimum 33 in a 100 micrometer by 100 micrometer area; meeting either of the following sets of properties:
- (i) width 4.76 mm to 35 mm (plus or minus 0.05 mm); edge condition deburred edge; camber (in each 2,400 mm of length) of not over 20 mm arc height; or
- (ii) width 150 mm to 350 mm (plus or minus 0.50 mm); edge condition slit edge; camber (in each 2,400 mm of length) of not over 6.35 mm arc height;
- (ccl) anisotropic annealed and slit magnetic semihard alloy products, designated as A-732, the foregoing having the following chemical composition (percent by weight): nickel 14.7 to 15.3, aluminum 1.7 to 1.9, titanium 0.6 to 0.8 and iron 80 to 82; density of 7.65 g/cm<sup>3</sup>; with a remanence of 1.30 to 1.60 Tesla; with coercivity of 1.5 to 2.6 plus or minus 0.5 kA/m; Curie temperature 630°C; Vicker hardness in heat treated condition of 600; thickness 0.045 to 0.3 mm; maximum width 240 mm;
- (ccli) forged products, designated as A-645, the foregoing in thicknesses of 153 mm to 1270 mm; hardness of 290 to 320 BHN; hardness dispersion including through-thickness measured anywhere on block not exceeding 15 BHN for thicknesses 153 mm to 203 mm, hardness dispersion measured anywhere on block including through-thickness not exceeding 30 BHN for thickness over 203 mm to 1270 mm; homogenous (free of hard spots); conforming to ASTM A578-S9 ultrasonic testing requirements with 3 mm flat bottom hole; rolled for thicknesses not exceeding 813 mm; rough machined for thicknesses greater than 813 mm; oxygen content not exceeding 20 ppm, hydrogen content not exceeding 2 ppm.; having the following chemical composition (percent by weight): carbon 0.235 to 0.275, chromium 1.2 to 1.5, manganese 1.2 to 1.5, molybdenum 0.35 to 0.55, silicon 0.05 to 0.15, sulfur 0.060 to 0.080 and boron 0.002 to 0.004;
- (cclii) prehardened hot-rolled mold steel products, designated as A-626; the foregoing comprising rounds from 12 mm to 500 mm diameter, flats with a thickness 12 mm to 1300 mm and width 300 mm to 2000 mm; having the following chemical composition (percent by weight): carbon 0.23 to 0.27, chromium 1.20 to 1.40, manganese 1.20 and 1.40, nickel not more than 0.30, molybdenum 0.35 to 0.55, silicon 0.05 to 0.15, boron 0.0002 to 0.004, sulfur not more than 0.02, phosphorus not more than 0.02 and aluminum not more than 0.07;
- (ccliii) hot-rolled flat-rolled products, of high strength grade 100, designated as A-645; the foregoing in thicknesses 2.3 mm to 3.0 mm; widths 1.016 m to 1.524 m; yield strength of 700 to 800 MPa, tensile strength of 750 to 910 MPa; elongation not less than 13 percent; and bending radius of 1.6 times thickness; having the following chemical composition

(percent by weight): carbon not over 0.1, manganese not over 2.0, phosphorus not over 0.025, sulfur not over 0.01, silicon not over 0.4, aluminum 0.02 to 0.06, titanium not over 0.15, molybdenum not over 0.5, niobium (columbium) not over 0.09 and vanadium not over 0.2;

- (ccliv) hot-rolled flat-rolled products, designated as A-668, the foregoing in coils, high strength, minimum yield strength of 550 MPa. in compliance with ASTM SAE J1392 Grade 080 XLF; having the following chemical composition (percent by weight): carbon 0.10 maximum, manganese 1.7 maximum, silicon 0.250 maximum, niobium (columbium) 0.080 maximum, vanadium 0.10 maximum and titanium 0.005 maximum; thickness 15.5 mm or more, width 1820 mm or more;
- (cclv) hot-rolled or hot-rolled pickled and oiled, high strength, flat-rolled steel coils, designated as A-682; having the following chemical composition (percent by weight): carbon 0.025 to 0.065, manganese 0.195 to 0.305, phosphorus 0.020 maximum, sulfur 0.015 maximum, silicon 0.030 maximum, aluminum 0.015 to 0.055, nitrogen 0.0050 maximum, copper 0.040 maximum, tin 0.010 maximum, chromium 0.040 maximum, nickel 0.040 maximum, molybdenum 0.010 maximum, niobium (columbium) 0.006 to 0.012, vanadium 0.005 maximum, boron 0.0005 maximum and titanium 0.005 maximum; minimum yield strength 248 MPa, minimum tensile strength of 345 MPa, minimum elongation of 30 percent; in the following dimensions: hot-rolled or hot-rolled pickled and oiled: 2.31 mm to 2.72 mm x 1930 mm or more; or 3.0 mm to 3.40 mm x 1930 mm or more;
- (ccclvi) hot-rolled flat-rolled steel products, designated as A-705; the foregoing in coils, thickness 5.0 mm +/- 0.2 mm, width 6.2 mm +/- 0.2 mm; chemical composition (percent by weight): carbon 0.11 to 0.17, silicon 0.10 maximum, manganese 0.30 to 0.60, phosphorus 0.025 maximum, sulfur 0.025 maximum, molybdenum 0.20 to 0.50, vanadium 0.04 to 0.11 and aluminum 0.02 to 0.08; minimum yield strength of 400 N/mm<sup>2</sup>; tensile strength 490 N/mm<sup>2</sup> to 610 N/mm<sup>2</sup>; minimum elongation of 22 percent,
- (ccclvii) hot-rolled hardened and annealed saw steel in sheet form, designated as A-711, the foregoing in thickness not over 15 mm; width not over 1610 mm; through-hardened to 38 to 52 HRC with a tolerance of +/- 2 HRC; thickness tolerances: up to 6 mm thickness: + 0.30 / - 0.0 mm, above 6 mm up to 8 mm thickness: + 0.34 / - 0.0 mm, above 8 mm thickness: + 0.38 / - 0.0 mm; surface descaled; smooth edges; cross bow (per mm of width) not greater than 0.001 mm; meeting one of the following chemical compositions (percent by weight):
  - (i) carbon 0.70 to 0.80, silicon 0.25 to 0.50, manganese 0.60 to 0.80, phosphorus not over 0.035, sulfur not over 0.035 and chromium 0.30 to 0.45;
  - (ii) carbon 0.75 to 0.85, silicon 0.25 to 0.45, manganese 0.30 to 0.85, phosphorus not over 0.035, sulfur not over 0.035, chromium 0.40 to 0.70 and vanadium 0.15 to 0.25; or
  - (iii) carbon 0.60 to 0.80, silicon 0.10 to 0.30, manganese 0.35 to 0.60, phosphorus not over 0.035, sulfur not over 0.035, chromium 0.20 to 0.50, molybdenum not over 0.10 and nickel 0.50 to 1.00;
- (ccclviii) hot-rolled flat-rolled steel, designated as A-754, in coils, having the following chemical composition (percent by weight): carbon 0.10 to 0.14, manganese not over 0.90, phosphorus not over 0.025, sulfur not over 0.003, silicon 0.30 to 0.50, chromium content 0.50 to 0.70, copper 0.20 to 0.40 and nickel not over 0.20; thickness 1.6 to 5.03 mm, width up to 1,550 mm; minimum yield strength 344 N/mm<sup>2</sup>, tensile strength 482 to 607 N/mm<sup>2</sup>, thickness tolerance according to half of ASTM 568 specification; minimum elongation 22 percent; hardness 79 to 89 HRB; pickled and oiled; surface condition free of injurious defects such as holes, breaks, scabs, scale and embosses;
- (ccclix) hot-rolled flat-rolled steel, designated A-791; the foregoing being ferritic mono-phase alloyed high-tensile steel; thickness at least 1.2 mm; having the following chemical composition (percent by weight): carbon 0.10 maximum, silicon 0.40 maximum, manganese 2.0 maximum, phosphorus 0.025 maximum, aluminum 0.060 maximum, niobium 0.09 maximum, titanium 0.20 maximum, vanadium 0.20 maximum, molybdenum 0.50 maximum and sulfur 0.010 maximum; in either of the following conditions:
  - (i) minimum tensile strength 780 MPa, minimum elongation 13 percent, and minimum stretch flange ratio of 70 percent; or
  - (ii) minimum tensile strength 980 MPa, minimum elongation 10 percent, and minimum stretch flange ratio of 40 percent;
- (ccclx) hot-rolled flat-rolled steel, designated as A-809, the foregoing in coils; width less than 600 mm; thickness 2.00 mm to 4.00 mm or 10 mm to 13 mm; inclusions determined in accordance of ASTM E45, Method A or DIN 50602

- specifications; having the following chemical composition (percent by weight): carbon not over 0.12, silicon not over 0.6, manganese not over 2.1, phosphorus not over 0.025, sulfur not over 0.015, aluminum 0.02 or more, niobium 0.02 or more but not over 0.15, vanadium not over 0.20, titanium not over 0.20, molybdenum not over 0.20 and boron not over 0.20; minimum yield strength 759 MPa in both longitudinal and transverse directions, minimum tensile strength 814 MPa, Charpy impact values greater than or equal to 17 J -40°C; elongation greater than or equal to 12 percent; minimum bendability 1.125 times thickness;
- (cclxi) hot-rolled floor plate in coils, designated as A-645 and entered in an aggregate quantity not to exceed 8,500 t; in widths greater than 1,651 mm and meeting either of the sets of properties described below:
- (i) thickness from 2 mm to 16 mm; commercial quality grade; having the following chemical composition (percent by weight): carbon of 0.02 to 0.10, silicon of 0.03 maximum, manganese of 0.15 to 0.50, phosphorus not over 0.03, sulfur not over 0.03, vanadium not over 0.008, aluminum of 0.01 to 0.08 and nitrogen not over 0.014; or
- (ii) grade A36; having the following chemical composition (percent by weight): carbon of 0.04 to 0.21, silicon not over 0.40, manganese not over 1.50, phosphorus not over 0.03, sulfur not over 0.025, vanadium not over 0.05, aluminum from 0.010 to 0.05 and nitrogen not over 0.009;
- (cclxii) hot-rolled steel, designated as A-645 and entered in an aggregate quantity not to exceed 250 t; in grade SAE 1060; thickness 1.78 mm or more but less than 2.54 mm, widths of 1016 mm to 1524 mm; having the following chemical composition (percent by weight): carbon of 0.57 to 0.65, manganese of 0.6 to 0.75, phosphorus not over 0.025, sulfur not over 0.005, silicon not over 0.25, aluminum 0.015 to 0.03, copper not over 0.1, nitrogen not over 0.01, and combined nickel, chromium and molybdenum not over 0.45;
- (cclxiii) hot-rolled steel, designated as A-645 and entered in an aggregate quantity not to exceed 250 metric tons; in grade SAE 1080/1085 with the following characteristics: thickness of at least 1.78 mm but less than 2.06 mm; widths greater than 1,500 mm to 1,650 mm; inclusion controlled according to ASTM E45 (average value on ten fields: A max 1.5, B max 1, C max 1, D max 1.5) having the following chemical composition (percent by weight): carbon 0.815 to 0.884, manganese 0.8 to 0.9, phosphorus not over 0.02, sulfur not over 0.01, silicon 0.15 to 0.25, aluminum 0.02 to 0.04, copper not over 0.35, combined nickel, chromium, and molybdenum not over 0.3; in coils;
- (cclxiv) heat treatable boron hot rolled flat-rolled steel, designated as A-645 and entered in an aggregate quantity not to exceed 250 t; the foregoing with thickness 1.7 mm or more but less than 1.9 mm; having the following chemical composition (percent by weight): carbon 0.27 to 0.33, manganese 1.15 to 1.45, silicon 0.20 to 0.30, aluminum over 0.02, phosphorus not over 0.020, sulfur not over 0.005, copper not over 0.060, nickel not over 0.050, chromium from 0.15 to 0.25, titanium from 0.02 to 0.05, nitrogen not over 0.009 and boron from 0.001 to 0.004; calcium treated;
- (cclxv) hot-rolled flat-rolled high strength low alloy grade 100 heavy gauge steel, designated as A-645 and entered in an aggregate quantity not to exceed 5,000 t; the foregoing with thickness 4.5 mm to 12.7 mm; width 1.524 m to 1.829 m, with a yield strength of 700 to 800 MPa; tensile strength of 750 to 910 MPa; elongation not less than 13 percent; guaranteed bending radius of 1.6 times a thickness less than 6 mm and 1.8 times a thickness greater than 6 mm; having the following chemical composition (percent by weight): carbon not over 0.1, manganese not over 2.0, phosphorus not over 0.025, sulfur not over 0.01, silicon not over 0.4, aluminum from 0.02 to 0.06, titanium not over 0.15, molybdenum not over 0.5, niobium (columbium) not over 0.09 and vanadium not over 0.2;
- (cclxvi) hot-rolled flat-rolled steel, designated as A-649 and entered in an aggregate quantity not to exceed 10,000 t; the foregoing with thickness 1.8 mm or more but not over 2.2 mm; width not over 1524 mm; having the following chemical composition (percent by weight): carbon 0.05 to 0.13, manganese 1.20 to 1.65 and phosphorus equal to or less than 0.035; yield strength 550 to 575 MPa; tensile strength 620 to 760 MPa; elongation minimum 20 percent; bend radius of 2 times material thickness;
- (cclxvii) hot-rolled flat-rolled steel, designated as A-649 and entered in an aggregate quantity not to exceed 8,000 t; ASTM A507 SAE-number 4130; 95 percent spheroidized annealed; thickness 2.48 mm to 6.12 mm; having the following chemical composition (percent by weight): carbon of 0.28 to 0.33, manganese of 0.40 to 0.60, phosphorus of 0.02 maximum, silicon of 0.03 maximum and chromium of 0.80 to 1.1; hardness Rb maximum of 85;
- (cclxviii) hot-rolled flat-rolled products, ASTM A1011 CS type A (modified) as rolled or tension leveled hot rolled pickled and oiled flat rolled steel coils, designated as A-680 and entered in an aggregate quantity not to exceed 1,000 t; whether temper rolled or not, with surface requirements equal to exposed, possessing non-earing properties; thicknesses from 1.37 mm but less than 1.7 mm and with thickness tolerance of one half or less than standard thickness tolerance as

specified in ASTM A568 and A635; having the following chemical composition (percent by weight): carbon 0.025 to 0.070, manganese 0.175 to 0.274, phosphorus not over 0.017, sulfur not over 0.024, silicon not over 0.024, aluminum 0.025 to 0.060, nitrogen 0.0025 to 0.0050, copper not over 0.040, tin not over 0.10, chromium not over 0.040, nickel not over 0.040, molybdenum not over 0.010, niobium (columbium) not over 0.005, vanadium not over 0.005, boron not over 0.0005 and titanium not over 0.005;

- (cclxix) hot-rolled flat-rolled A1011 CS TYPE B (modified) hot rolled or tension leveled hot rolled pickled and oiled flat rolled steel coils, designated as A-680 and entered in an aggregate quantity not to exceed 1,000 t; whether temper passed or not with surface requirements equal to exposed; thicknesses from 1.397 mm but less than 1.676 mm and with thickness tolerance of one half or less than standard thickness tolerance (ASTM A568 and A635; having the following chemical composition (percent by weight): carbon 0.080 to 0.100, manganese 0.300 to 0.400, phosphorus not over 0.020, silicon not over 0.030, aluminum 0.025 to 0.064, nitrogen not over 0.0050, copper not over 0.070, tin not over 0.024, chromium not over 0.060, nickel not over 0.060, molybdenum not over 0.015, niobium (columbium) not over 0.005, vanadium not over 0.005, boron not over 0.0005 and titanium not over 0.005;
- (cclxx) hot-rolled flat-rolled, pickled and oiled, tension leveled, high strength steel coils, designated as A-680; the foregoing according to SAE J1392 grade 060XLF modified with inclusion shape control and following chemistry (percent by weight): carbon 0.070 to 0.110; manganese 1.220 to 1.354; phosphorus 0.020 maximum, sulfur 0.005 maximum, silicon 0.120 maximum, aluminum 0.015 to 0.055, nitrogen 0.0060 maximum, copper 0.040 maximum, tin 0.010 maximum, chromium 0.040 maximum, nickel 0.040 maximum, molybdenum 0.010 maximum, niobium (columbium) 0.015 to 0.025, vanadium 0.005 maximum, boron 0.0008 maximum and titanium 0.005 maximum; minimum yield strength 414 MPa, minimum tensile strength 482 MPa and minimum elongation of 20 percent; thickness 3.404+0.203/-0 mm and width 1.350.645+38.100/-0 mm or thickness 3.584+0.203/-0 mm and width 1.279.525+38.100/-0 mm;
- (cclxxi) hot-rolled pickled and oiled tension leveled, high strength, flat-rolled steel coils, designated as A-680; the foregoing according to SAE J1392 grade 070XLF mod with inclusion shape control and following chemistry in (percent by weight): carbon 0.080 to 0.120, manganese 1.370 to 1.504, phosphorus 0.020 maximum, sulfur 0.005 maximum, silicon 0.120 maximum, aluminum 0.015 to 0.055, nitrogen 0.0060 maximum, copper 0.040 maximum, tin 0.010 maximum, chromium 0.040 maximum, nickel 0.040 maximum, molybdenum 0.010 maximum, niobium (columbium) 0.040 to 0.050, vanadium 0.005 maximum, boron 0.0008 maximum and titanium 0.005 maximum; minimum yield strength of 482 MPa, minimum tensile strength of 550 MPa; thickness 3.584+0.203/-0 mm and width 1,288.725 +31.750/-0 mm;
- (cclxxii) hot-rolled or hot rolled pickled and oiled flat-rolled steel coils, designated as A-682 and entered in an aggregate quantity not to exceed 14,500 t; having the following chemical composition (percent by weight): carbon 0.090 to 0.130, manganese 0.425 to 0.575, phosphorus 0.020 maximum, sulfur 0.020 maximum, silicon 0.020 maximum, aluminum 0.020 to 0.060, nitrogen 0.0030 to 0.0050 maximum, copper 0.040 maximum, tin 0.010 maximum, chromium 0.040 maximum, nickel 0.040 maximum, molybdenum 0.010 maximum, niobium (columbium) 0.005 maximum; vanadium 0.005 maximum, boron 0.0005 maximum and titanium 0.005 maximum; minimum yield strength 248 MPa, minimum tensile strength 345 MPa, minimum elongation of 30 percent; width 1,778 mm or more, thickness 2.49 mm to 3.51 mm;
- (cclxxiii) hot-rolled floor plate in coils, designated as A-688; the foregoing being pattern number 4, grade ASTM A786, thickness of 4.75 mm or more but less than 6.4 mm, width of 1,829 mm or greater;
- (cclxxiv) hot-rolled flat-rolled steel in coils; in widths from 733 mm to 1,244.6 mm (width tolerance of 20.0 mm) having coil weights of 17.89 kg/mm of width or more; designated as A-689 and entered in an aggregate annual quantity not to exceed 35,000 t; camber tolerance of not more than 20 mm per 10 m, thickness ranging from 1.80 mm to 3.00 mm (tolerances of 0.1 mm); flatness deviation not to exceed 2.5 percent steepness ratio (defined as height over the wavelength); in one of the following combinations of chemical compositions (percent by weight) and widths: (A) width from 733 to 1,244.6 mm, inclusive, and containing 0.010 to 0.08 carbon, 0.16 to 0.30 manganese, 0.025 maximum silicon, 0.020 maximum phosphorus, 0.020 maximum sulfur, 0.008 maximum nitrogen and 0.02 to 0.08 aluminum; (B) of a width from 915 to 1,244.6 mm, inclusive, and containing 0.08 to 0.13 carbon, 0.30 to 0.60 manganese, 0.035 maximum silicon, 0.025 maximum phosphorus, 0.025 maximum sulfur, 0.008 maximum nitrogen and 0.02 to 0.07 aluminum; (C) of a width from 762 to 1,244.6 mm, inclusive, and containing 0.13 to 0.17 carbon, 0.30 to 0.60 manganese, 0.035 maximum silicon, 0.025 maximum phosphorus, 0.025 maximum sulfur, 0.010 maximum nitrogen and 0.02 to 0.07 aluminum; or (D) of a width from 733 to 1,244.6 mm, inclusive, and containing 0.010 maximum carbon, 0.10 to 0.20 manganese, 0.030 maximum silicon, 0.020 maximum phosphorus, 0.020 maximum sulfur, 0.007 maximum nitrogen, 0.02 to 0.075 aluminum and 0.15 maximum titanium; all certified by the importer of record to be

used for rerolling in a reversing cold reduction mill, with a reduction in thickness during the cold rolling process of at least 40;

- (cclxxv) hot-rolled coils, designated as A-699 and entered in an aggregate quantity not to exceed 500 t; the foregoing meeting ANSI 1095 in thickness from 1.75 mm but less than 2.03 mm and in widths over 685.8 mm but not over 1,220 mm; and modified to meet the following chemical specifications (percent by weight): 0.70 to 1.04 carbon, 0.30 to 0.100 manganese, not over 0.025 phosphorus, not over 0.015 sulfur, 0.025 to 0.065 aluminum, 0.15 to 0.25 silicon, not over 0.100 copper, not over 0.100 nickel, 0.090 to 0.30 chromium, no over 0.025 molybdenum, not over 0.020 tin, not over 0.008 niobium, not over 0.008 titanium, not over 0.0008 boron, not over 0.010 nitrogen and not over 0.008 vanadium;
- (cclxxvi) hot-rolled ferritic mono-phase alloyed high-tensile steel, designated as A-791; the foregoing in thickness of 1.2 mm or more but less than 1.8 mm; having the following chemical composition (percent by weight): carbon 0.10 maximum, silicon 0.40 maximum, manganese 2.0 maximum, phosphorus 0.025 maximum, aluminum 0.060 maximum, niobium 0.09 maximum, titanium 0.20 maximum, vanadium 0.20 maximum, molybdenum 0.50 maximum and sulfur 0.010 maximum; minimum tensile strength of 590 MPa, minimum elongation of 16 percent, and a minimum stretch flange ratio of 80 percent;
- (cclxxvii) cold-rolled electrolytically nickel-coated steel foil, designated as A-604; the foregoing being substrate SAE 1008 A-1 Killed Quality; having the following chemical composition (percent by weight): carbon not over 0.10, manganese not over 0.50, phosphorus not over 0.030 and sulfur not over 0.035; substrate thickness 0.050 mm or more but not over 0.0572 mm, width 607.6 mm or more but not over 611.6 mm; as rolled with a Rockwell hardness not less than 83on 15T scale; unalloyed nickel coating 2.54 micrometers or more in thickness; non-brilliant finish; in coils wound on 76.6 mm diameter steel cores and with 355.6 mm maximum outer diameter;
- (cclxxviii) flat-rolled products, designated as A-619, the foregoing coated with zinc according to ASTM-Designation 653/A 653M Type A/ Grade 40, 150 g/m<sup>2</sup> to 280 g/m<sup>2</sup> of zinc for both sides; having the following chemical composition (percent by weight): carbon not over 0.20, manganese not over 1.20, sulfur not over 0.035, nickel not over 0.20, chromium not over 0.15, vanadium not over 0.008 and titanium not over 0.30; longitudinal mechanical properties of base metal: yield strength 185 MPa minimum, tensile strength 310 MPa or more but not over 540 MPa, elongation 22 percent minimum; edges rounded and galvanized after slitting; width 40 mm or more but not over 60 mm; weight 0.63 kg/ linear m to 0.86 kg/linear m; thickness 1 mm or more but not over 2 mm; in coils with outside diameter 750 mm or more but not over 1,300 mm;
- (cclxxix) nickel-coated cold-rolled slit-to-width steel, in coils, designated as A-643, the foregoing in thickness 0.250 mm or more but not over 1.828 mm, width 25.39 mm or more but not over 76.17 mm; having the following chemical composition (percent by weight): carbon 0.020 to 0.05, manganese 0.10 to 0.30, phosphorus not over 0.025, sulfur not over 0.020, silicon not over 0.025, aluminum 0.030 to 0.085, nitrogen not over 0.007 and copper plus nickel plus chromium not over 0.2; aluminum-killed, continuously cast; electrolytically coated with nickel free from pits or blisters on one surface ("plated side") of the product with a minimum thickness of 0.00381 mm and with nickel thickness of not over 0.000762 mm on the opposite "bare" side; in coils with a maximum inside diameter of 50.8 cm and a maximum outside diameter of 172.72 cm;
- (cclxxx) copper coated cold-rolled slit-to-width steel, designated as A-643, the foregoing in coils; thickness 0.250 mm or more but not over 1.828 mm, width 25.39 mm or more but not over 76.17 mm; having the following chemical composition (percent by weight): carbon 0.020 to 0.08, manganese 0.10 to 0.45, phosphorus 0.02 maximum, and sulfur 0.035 maximum; rimmed, capped, aluminum-killed, or continuously cast; coated with smooth and clean copper, free from pits, blisters, or roughness, deposited electrolytically on the two flat surfaces of the strip in an amount, for both sides, of not less than 50.0 and not more than 100.7 g per m sq of product (or, for a single side, of not less than 25.0 and not more than 50.35 g per m sq. of surface); in coils with inside diameter 40.6 cm or more but not over 50.8cm and a maximum outside diameter of 140.0cm;
- (cclxxxi) aluminized manganese-boron steel, designated as A-645; the foregoing sometimes known commercially as "USIBOR"; having the following chemical composition (percent by weight): carbon 0.20 to 0.25; manganese 1.10 to 1.40, sulfur not over 0.008, aluminum not over 0.06, silicon not over 0.50, boron 0.002 to 0.005 and titanium not over 0.05; in coils, width 620 mm or more but not over 1,600 mm; thickness 0.6 mm or more but not over 3.0 mm; ASTM 463-A coating; yield strength 370 to 490 MPa, tensile strength greater than 550 MPa, and elongation 10 percent or more;
- (cclxxxii) steel-backed bearing material, in coils, designated as A-646, the foregoing of a thickness 0.95 mm or more but not over 2.51 mm; width 5 mm to 51 mm, inclusive, or 170 mm to 200 mm, inclusive; of SAE1010 steel with a sintered bronze layer consisting (by weight) of 91.3 percent tin, 0 to 6 percent lead, 0 to 0.2 percent phosphorus and balance copper; said bronze being impregnated with one of the following compositions (by weight):

- (i) 30 to 40 percent polytetrafluoroethylene and 60 to 70 percent lead oxide, with the lead oxide being dispersed throughout the polytetrafluoroethylene in a scale-like arrangement;
  - (ii) 50 to 60 percent polytetrafluoroethylene, 5 to 10 percent fluorinated ethylene propylene, with the balance a tin-lead alloy dispersed in globular form throughout the polytetrafluoroethylene and fluorinated ethylene propylene;
  - (iii) 70 to 80 percent polytetrafluoroethylene, 8 percent fluorinated ethylene propylene, with the balance consisting of a tin-oxide alloy dispersed in globular form throughout the polytetrafluoroethylene and fluorinated ethylene propylene and a polyester resin dispersed in fiber form;
  - (iv) 95 to 99.5 percent polyacetal with a balance of titanium dioxide;
  - (v) 70 to 80 percent polytetrafluoroethylene, 8 to 10 percent fluorinated ethylene propylene, with the balance consisting of a tin oxide alloy dispersed in globular form throughout the polytetrafluoroethylene and fluorinated ethylene propylene and carbon dispersed in fiber form; or
  - (vi) 80 to 90 percent polytetrafluoroethylene, with the balance carbon fibers dispersed throughout the polytetrafluoroethylene;
- (cclxxxiii) flat-rolled products, designated as A-688, the foregoing coated with zinc-aluminum alloy, such alloy consisting of 95 percent zinc and 5 percent aluminum by weight; sometimes referred to as (but not limited to) products known as "Ragal Galfan"; width of 1,220 mm or more;
- (cclxxxiv) flat-rolled coated SAE 1009 steel in coils, designated as A-695, meeting one of the following characteristics (compositions by weight):
- (i) thickness not less than 0.915 mm but not over 0.965 mm, width not less than 19.75 mm or more but not over 20.35 mm; with a two-layer coating; the first layer consisting of tin 9 to 11 percent, lead 9 to 11 percent, zinc less than 1 percent, other materials (other than copper) not over 1 percent and balance copper; the second layer consisting of lead 45 to 55 percent, molybdenum disulfide ( $\text{MoS}_2$ ) 3 to 5 percent, other materials not over 2 percent, balance polytetrafluoroethylene (PTFE);
  - (ii) thickness not less than 0.915 mm or more but not over 0.965 mm; width not less than 18.65 mm or more but not over 19.25 mm; with a two-layer coating; the first layer consisting of tin 9 to 11 percent, lead 9 to 11 percent, zinc less than 1 percent, other materials (other than copper) not over 1 percent, balance copper; the second layer consisting of lead 33 to 37 percent, aromatic polyester 13 to 17 percent, other materials (other than polytetrafluoroethylene (PTFE)) less than 2 percent, balance PTFE;
  - (iii) thickness not less than 0.920 mm or more but not over 0.970 mm; width not less than 21.35 mm or more but not over 21.95 mm; with a two-layer coating; the first layer consisting of tin 9 to 11 percent, lead 9 to 11 percent, zinc less than 1 percent, other materials (other than copper) not over 1 percent, balance copper; the second layer consisting of lead 33 to 37 percent, aromatic polyester 13 to 17 percent, other materials (other than PTFE) less than 2 percent, balance PTFE;
  - (iv) thickness not less than 1.80 mm or more but not over 1.85 mm, width not less than 14.7 mm or more but not over 15.3 mm; with a lining consisting of tin 2.5 to 4.5 percent, lead 21.0 to 25.0 percent, zinc less than 3 percent, iron less than 0.35 percent, other materials (other than copper) less than 1 percent, balance copper;
  - (v) thickness 1.59 mm or more but not over 1.64 mm; width 14.5 mm or more but not over 15.1 mm; with a lining consisting of tin 2.3 to 4.2 percent, lead 20 to 25 percent, iron 1.5 to 4.5 percent, phosphorus 0.2 to 2.0 percent, other materials (other than copper) less than 1 percent, with a balance copper;
  - (vi) thickness not less than 1.75 mm or more but not over 1.8 mm; width not less than 18.0 mm or more but not over 18.6 mm; with a lining consisting of tin 2.3 to 4.2 percent, lead 20 to 25 percent, iron 1.5 to 4.5 percent, phosphorus 0.2 to 2.0 percent, other materials (other than copper) less than 1 percent, with a balance copper;

- (vii) thickness 1.59 mm or more but not over 1.64 mm; width 13.6 mm or more but not over 14.2 mm; with a lining consisting of tin 2.3 to 4.2 percent, lead 20 to 25 percent, iron 1.5 to 4.5 percent, phosphorus 0.2 to 2.0 percent, other materials (other than copper) less than 1 percent, with a balance copper;
  - (viii) thickness 1.59 mm or more but not over 1.64 mm; width 11.5 mm or more but not over 12.1 mm; with a lining consisting of tin 2.3 to 4.2 percent, lead 20 to 25 percent, iron 1.5 to 4.5 percent, phosphorus 0.2 to 2.0 percent, other materials (other than copper) less than 1 percent, with a balance copper;
  - (ix) thickness 1.59 mm or more but not over 1.64 mm; width 11.2 mm or more but not over 11.8 mm, with a lining consisting of copper 0.7 to 1.3 percent, tin 17.5 to 22.5 percent, silicon less than 0.3 percent, nickel less than 0.15 percent, other materials (other than copper) less than 1 percent, balance copper;
  - (x) thickness 1.59 mm or more but not over 1.64 mm; width 7.2 mm or more but not over 7.8 mm; with a lining consisting of copper 0.7 to 1.3 percent, tin 17.5 to 22.5 percent, silicon less than 0.3 percent, nickel less than 0.15 percent, other materials (other than copper) less than 1 percent, balance copper; or
  - (xi) thickness 1.72 mm or more but not over 1.77 mm; width 7.7 mm or more but not over 8.3 mm; with a lining consisting of copper 0.7 to 1.3 percent, tin 17.5 to 22.5 percent, silicon less than 0.3 percent, nickel less than 0.15 percent, other materials (other than copper) less than 1 percent, balance copper;
- (cclxxxv) cold rolled flat-rolled steel, designated as A-719; the foregoing continuously hot-dip zinc coated; with round rolled and zinc coated edges, certified by the importer to meet the following specifications: steel strip dimensions (before zinc coating): thickness 1.45 +/-0.02 mm or 1.85 +/-0.02 mm, width 15 mm to 60 mm +/-0.25 mm; edges round rolled; having the following chemical composition (percent by weight): carbon not over 0.07, silicon not over 0.02, manganese 0.15 to 0.30, phosphorus not over 0.025, sulfur not over 0.030, nitrogen not over 0.010 and aluminum 0.020 to 0.100; annealed in reducing protective gas atmosphere, with 7 percent hydrogen; tolerance in thickness with zinc coating: +/- 0.03 mm, tolerance in width with zinc coating: +/- 0.3 mm; tensile strength 310 to 450 N/mm<sup>2</sup>, elongation 22 percent minimum; zinc coating Super High Grade Zinc according to EN 1179Z1, SHG.; coating mass, including both surfaces, minimum 220 g/m<sup>2</sup>, corresponding to a minimum coating thickness of 15.4 micrometers per surface; the adhesion of the coating shall, after bending the zinc coated strip 180 degrees tightly together in any direction, show no signs of flaking;
- (cclxxxvi) ultra-thin, prepainted, galvanized alloy steel, designated as A-742, the foregoing having the following chemical composition (percent by weight): carbon 0.020 to 0.070, silicon 0.025 to 0.050, manganese 0.20 to 0.45, phosphorus 0.015 to 0.040, sulfur 0.020 to 0.050 and titanium 0.05 to 0.07; plated or coated with zinc (120 g/m<sup>2</sup>); one side coated with epoxy primer plus polyester paint with total thickness not over 0.023 mm, in colors white, almond, brown and taupe; the other side coated with grey polyester primer with no wax or silicon with a thickness not greater than 0.104 mm (0.0041 mil); tensile strength 413 to 500 MPa; yield strength 396 to 500 MPa, elongation from 16 to 21 percent; steepness (ratio of height to wave length) less than one percent; meeting one of the following sets of dimensions:
- (i) thickness 0.21 mm or more but not over 0.25 mm, and width 803 mm or more but not over 810 mm or width 846 mm or more but not over 853 mm; or
  - (ii) thickness 0.18 mm or more but not over 0.22 mm, and width 374 mm or more but not over 380 mm or width 417 mm or more but not over 424 mm or width 493 mm or more but not over 500 mm or width 622 mm or more but not over 629 mm;
- (cclxxxvii) cold-rolled, extra deep draw quality steel, designated as A-743, the foregoing electrocoated on both sides with zinc-nickel coating of weight 34 g/m<sup>2</sup> or more but not over 49 g/m<sup>2</sup>, thickness 0.75 mm (+/- 0.06 mm), width 1570 mm (+5 mm/-0 mm); having the following chemical composition (percent by weight): carbon not over 0.003, sulfur not over 0.006, silicon not over 0.03, manganese not over 0.20, phosphorus not over 0.020 and titanium stabilized; certified by the importer to have the following mechanical properties using JIS (Japan Industry Standard) testing methods: elongation not less than 45 percent or more but not over 53



percent, yield strength not less than 110 MPa or more but not over 155 MPa, tensile strength of not less than 260 MPa but not over 300 MPa, and R-Value equal to or greater than 1.8;

- (cclxxxviii) polymer coated electrolytic chromium/chromium oxide coated cold reduced low carbon steel, designated as A-684; the foregoing manufactured according to Euro norm standard EN10202:2001; thickness 0.1 mm or more but not over 0.6 mm and width not over 1,000 mm; having the following chemical composition (percent by weight): carbon 0.015 or more but not over 0.12, manganese 0.15 or more but not over 0.6, phosphorus not over 0.02, silicon not over 0.025 and sulfur not over 0.02; proof/lower yield strength not less than 180 MPa and not more than 700 MPa (measured according to Euronorm EN10002 part 1.2001), elongation not less than 0.5% and not more than 40%; polymer coating on one side of the steel strip consisting amorphous layer of polyethyleneterephthalate (PET) that has been directly extruded or laminated in two and/or three layers and having a thickness not less than 15 micrometers and not more than 200 micrometers; coating second side may be the same as the first side or be composed of a similarly extruded layer of polypropylene (PP) polymer that has a thickness not less than 15 micrometers and not more than 200 micrometers;
- (cclxxxix) gray chromate-free coated commercial quality flat-rolled steel products, designated as A-600, the foregoing having resin coatings and electrolytic zinc coatings that are chromate free, with zinc coating weight 8.5 g/m<sup>2</sup> or more and resin coating weight of 0.2 g/m<sup>2</sup> or more but not over 1.8 g/m<sup>2</sup>; gray color; anti-fingerprint; meeting ASTM A366 or ASTM A366M standards; thickness of 0.3 mm or more but not over 2.3 mm; width of 600 mm or more but not over 1,854 mm; yield strength of 170 MPa to 260 MPa; tensile strength of 300 MPa to 360 MPa; elongation of 34 percent to 48 percent; having the following chemical composition (percent by weight): carbon not over 0.15, manganese not over 0.60, phosphorus not over 0.10, sulfur not over 0.035, copper not over 0.20, nickel not over 0.20, chromium not over 0.15, molybdenum not over 0.08, vanadium not over 0.008, titanium not over 0.008 and columbium or niobium not over 0.008;
- (ccxc) gray chromate-free coated drawing quality flat-rolled steel products, designated as A-600, with the following characteristics: having resin coatings and electrolytic zinc coatings that are chromate free, with zinc coating weight 8.5 g/m<sup>2</sup> or more and resin coating weight of 0.2 g/m<sup>2</sup> or more but not over 1.8 g/m<sup>2</sup>; gray color; anti-fingerprint; meeting ASTM A620 or ASTM A620M standards; thickness of 0.3 mm or more but not over 2.3 mm; width of 600 mm or more but not over 1,854 mm; yield strength of 130 MPa to 190 MPa; minimum tensile strength of 270 MPa; elongation of 38 percent to 52 percent; having the following chemical composition (in percent by weight): titanium not over 0.06, carbon not over 0.003, manganese not over 0.18, phosphorus not over 0.022, sulfur not over 0.009, aluminum 0.01 to 0.06, silicon not over 0.034, copper not over 0.05, nickel not over 0.05, chromium not over 0.06 and columbium or niobium 0.003 to 0.007;
- (ccxci) galvanized flat-rolled steel products, designated as A-615 and entered in an aggregate annual quantity not to exceed 80,000 t, the foregoing vacuum degassed, interstitial-free; with gauge from 0.61 mm or more but not over 2.10 mm and width 1219.2 mm or more but not over 1830 mm; having the following chemical composition (percent by weight): carbon not over 0.02, silicon 0.06 to 0.10, manganese not over 0.40, phosphorus not over 0.02, sulfur not over 0.02, aluminum 0.01 or more, copper not over 0.20, nickel not over 0.20, chromium not over 0.15, molybdenum not over 0.06 and titanium not over 0.30; yield strength from 120 to 180 N/mm<sup>2</sup> and tensile strength of not over 350 N/mm<sup>2</sup>;
- (ccxcii) coated cold-rolled flat-rolled steel products, designated as A-625 and entered in an aggregate quantity not to exceed 2,700 t, the foregoing coated with zinc by using an electrolytic process in coils, then top coated with dark metallic black, crystal white, metallic silver or bisque by using rolling process in coils; meeting the following characteristics: width not over 1524 mm; referenced in ASTM A879 and A917; minimum requirements of paint coated steel, CS Type B; top coating weight 19 or more but not over 30 micrometers; backer coat from 13 to 20 micrometers any color; substrate 0.457 mm to 0.533 mm with a coating weight of 40 g/m<sup>2</sup> in accordance with testing methods described in ASTM A754, using an X-ray fluorescence nondestructive test method; having the following chemical composition (percent by weight): carbon not over 0.06, manganese not over 0.50, phosphorus not over 0.02 and sulfur 0.025; yield strength 138 to 241 MPa, elongation with 51 mm bar, greater than or equal to 32 percent; r value 1.4 to 1.8, n value 0.19 to 0.24;
- (ccxciii) coated flat-rolled SAE C1006 DDQ (deep draw quality) steel, designated as A-663 and entered in an aggregate annual quantity not to exceed 4,250 t, the foregoing being hot-dipped galvanized steel sheet, better than 15-I units flat of sheet as cut from the coil, thickness 0.38 to 0.63 mm with a desired tolerance of plus or minus 0.025 mm and with 40 to 60 grams per meter square of zinc coating per side; painted one side with 20 to 30 percent cross-linked polyester paint; coil size 6000 to 9000 kg; width 730 to 940 mm; having the following chemical composition (percent by weight): carbon not over 0.08, manganese 0.25 percent or more but not over 0.40, silicon not over 0.30, phosphorus not over 0.04 and sulfur not over 0.05;

- (ccxciv) continuous galvanized and phosphate-coated (patented L-treated) flat-rolled steel products, designated as A-676 and entered in an aggregate annual quantity not to exceed 500 t, the foregoing extra deep draw quality, single stabilized, interstitial-free, with a minimum elongation of 46 percent, meeting the following characteristics: thickness 0.65 mm to 0.85 mm; width 1,650 mm or more; having the following chemical composition (percent by weight): carbon not over 0.0025, sulfur not over 0.01, manganese not over 0.15 and phosphorus not over 0.007; with the following other properties: maximum yield point of 155 MPa; maximum tensile strength of 350 MPa; surface finish free from pits, scratches, rust, slivers and laminations; having undergone L-treatment comprising hot-dipped zinc-iron annealed coated steel treated with a highly lubricative film (with coating weights of 0.01 g/m<sup>2</sup> to 0.05 g/m<sup>2</sup>) containing manganese and phosphorus;
- (ccxcv) prepainted hot-dipped galvanized flat-rolled steel products, designated as A-692 and entered in an aggregate annual quantity not to exceed 3,000 t, the foregoing having thickness of 0.490 mm or more but not over 0.520 mm; width of 762.0 mm or more but not over 850.9 mm; hardness HRB 54 to HRB 60; yield strength 260 MPa to 300 MPa; tensile strength 360 MPa to 390 MPa; elongation in 50 mm of 37 percent to 41 percent; having the following chemical composition (percent by weight): carbon 0.026 to 0.050, silicon not over 0.023, manganese 0.20 percent to 0.29, phosphorus not over 0.017, sulfur not over 0.013, aluminum less than 0.05, copper not over 0.03, nickel not over 0.03, chromium not over 0.06; zero spangled surface; edge camber (in each 10,000 mm of length) not over 3 mm arc height; flatness not over 5 mm (in each 600 mm to 1,250 mm of length); in-line temper-passed and tension-leveled, with application of highly workable polyester paint after galvanizing, with high gloss of 75 percent plus or minus 5 percent, which paint shows no visible cracking after 1T bending test according to ASTM D4145;
- (ccxcvi) electrolytically plated or coated flat-rolled steel products of other alloy steel, designated as A-694, with a coating of either pure zinc or zinc nickel meeting the following characteristics: thickness 0.6 mm or more but not over 1.75 mm, thickness tolerances 0.05 mm; width 240 mm or more but not over 1,219 mm; with coating thickness tolerances not in excess of 6 g/m<sup>2</sup> per side; with a surface chemical treatment that is completely chromate-free deposited from an aqueous dispersion containing thiocarbonyl group compounds, phosphate ions and silica such that, when subjected to salt spray conditions for 72 hours in accordance with the testing method prescribed by JIS Z2371, the electrogalvanized steel sheet having a rusted surface area ratio of 5 percent or less; electrical conductivity of the electrogalvanized steel sheet having an interlaminar resistance value of 5 ohms per square centimeter or less, as measured by JIS C2550;
- (ccxcvii) electrogalvanized, high-strength, low alloy steel products, in coils per ASTM A568, designated as A-667 or A-701 and entered in an aggregate annual quantity not to exceed 2,260 t; the foregoing having a width of 762 mm or more but not over 1730 mm; electrogalvanized coating on both sides of 52 g/m<sup>2</sup> or more but not over 65 g/m<sup>2</sup>; oiled; thickness of 2.06 mm or greater; having the following chemical composition (percent by weight): carbon not over 0.15, sulfur not over 0.25, copper not over 0.20, nickel not over 0.20, chromium not over 0.15 and molybdenum not over 0.06; minimum yield strength 260 MPa; minimum tensile strength 450 MPa;
- (ccxcviii) battery quality nickel/cobalt plated, diffusion-annealed cold-rolled flat-rolled steel products, designated as A-782, the foregoing with a cold-rolled substrate conforming to AISI 1006 chemistry; thickness 0.203 mm; thickness tolerance +/- 0.010 mm; having the top-side electrolytically plated with natural nickel and then natural cobalt and the reverse side plated with natural nickel, then annealed to create a diffused layer between the nickel/cobalt and steel substrate; having a coating thickness on the top side of 1.25 micrometers or more, reverse side 1.875 micrometers or more, adherent to the substrate to permit a 1T bend in accordance with ASTM E290 without cracking, flaking, peeling or any other evidence of separation;
- (ccxcix) flat-rolled steel products, in coils, designated as A-807, having a width not over 150 mm; flash plated with copper on both sides and then coated on one side with a layer of sintered bronze powder, which layer is then coated with a second layer consisting of a plastic compound primarily containing polytetrafluoroethylene ("PTFE"); steel base with the following physical characteristics: tensile strength of 270 N/mm<sup>2</sup> or more, elongation 25 percent or more, hardness of HV 95 to 130; flash plated on both sides with copper to a thickness of 2.6 to 3.4 micrometers; sintered bronze layer containing by weight 9 to 12 percent tin, 88 to 91 percent copper and not over 0.3 percent other elements; outer-coated layer of a compound containing 65 percent minimum by weight PTFE and a maximum of 35 percent by weight other chemicals; total thickness 0.48 mm to 2.0 mm and width 4 mm to 150 mm;
- (ccc) double-reduced tin mill flat-rolled products, designated as A-674; the foregoing meeting ASTM A623, A623M, A626, or A626M; having thickness 0.171 mm to 0.227 mm; width 800.1 mm to 908.1 mm; electrolytically plated with tin, with coating weight from 0.56 g/m<sup>2</sup> to 2.8 g/m<sup>2</sup> per side; continuously annealed; type L chemistry; oiled with acetyltributyl citrate (ATBC), meeting either of the following sets of properties:
- (i) yield strength from 520 MPa to 580 MPa; minimum elongation of 5 percent; or

- (ii) yield strength from 620 MPa to 680 MPa; minimum elongation of 3 percent;
- (ccci) hot-rolled alloy steel sections, designated as A-621, having the following chemical composition (percent by weight): carbon 0.52 to 0.59, silicon 0.25 to 0.40, manganese 0.65 to 0.85, sulfur 0.030 maximum, phosphorus 0.030 maximum, chromium 0.60 to 0.80, molybdenum 0.10 maximum and vanadium 0.09 maximum; spheroidized annealed (80 percent minimum), decarburization 0.20 mm maximum, hardness HRB 99 maximum, shot blasted finish, in random lengths of 3 to 5 m; with the following cross sections:
  - (i) equal taper sections with width not greater than 35.00 mm and thickness not greater than 6.35 mm tapering to 1.60 mm maximum;
  - (ii) equal taper sections with width not greater than 95.00 mm and thickness not greater than 12.00 mm tapering to 4.00 mm maximum;
  - (iii) single bevel sections with width not greater than 36.00 mm and thickness not greater than 4.00 mm tapering to 1.25 mm with a single bevel no longer than 13.00 mm;
  - (iv) bevel sections with width not greater than 36.00 mm and thickness not greater than 5.00 mm tapering to 1.79 mm with a single bevel no longer than 26.00 mm; or
  - (v) bevel section with width not greater than 65.00 mm and thickness not greater than 7.00 mm tapering to 2.40 mm with a single bevel no longer than 26.00 mm;
- (cccii) steel bar in rectangular section, designated as A-630, not further worked than hot rolled, 45 mm in width and 32 mm in thickness plus or minus 1.5 mm; extra straight, certified by the importer to have the following characteristics: steel grade St 52-3, with restricted chemical composition (percent by weight): aluminum 0.020 to 0.050, nitrogen 0.009 maximum, total residual elements 0.15 maximum, certified by the importer as having a minimum reduction ratio of 102.3 having been hot rolled from a direct cast bloom;
- (ccciii) steel bars, designated as A-650, not further worked than hot-rolled, grade SAE8620 alloy steel, with a maximum copper content of 0.05 percent by weight, in flat rectangular profile with sharp corners, with sectional dimensions ranging from 5 mm to 41.3 mm thick, and from 76.97 mm to 242.1 mm wide, with dimensional tolerance of plus and minus 1.5 mm;
- (ccciv) hot-rolled bars, designated as A-693; having thickness from 10 mm to 19 mm, width from 98 mm to 150 mm; having the following chemical composition (percent by weight): carbon 0.28 to 0.33, manganese 0.45 to 0.65, silicon 0.55 to 0.75, phosphorus not over 0.025, sulfur not over 0.025, chromium 1.00 to 1.24, molybdenum 0.40 to 0.60, vanadium 0.20 to 0.30, nickel not over 0.25 and copper not over 0.25; spheroidize annealed, descaled; hardness of 86 to 96 HRB; grain size ASTM 4.5 or finer with occasional grains as large as 3 permissible, as determined using ASTM E112; decarburization (sub and partial) determined using ASTM E1077; aircraft quality conforming to AMS 2301 and free from injurious imperfections such as laminating, segregation and surface defects; produced by basic oxygen or electric furnace process, killed, treated with rare earths or calcium-silicon; flatness: for up to 12.7 mm thick, less than 6.35 mm in 3048 mm; for 12.7 mm to 15.9 mm thick, less than 12.7 mm in 3658 mm; or for 15.9 mm to 25.4 mm thick, less than 25.4 mm in 3048 mm;
- (cccv) hot-rolled bars, designated as A-708, the foregoing of SAE Grade 1095; having the following chemical composition (percent by weight): carbon 0.90 to 1.030, manganese 0.30 to 0.50, silicon 0.15 to 0.30, phosphorus not greater than 0.04, sulfur not greater than 0.05, nickel not greater than 0.25 and chromium not greater than 0.20; no more than 0.4572 mm depth of surface decarburization; meeting one of the following sets of dimensions:
  - (i) half round cross section, width from 39.9 mm to 40.6 mm, thickness from 11.3 mm to 11.8 mm, and radius of 24.5 mm to 24.8 mm; length from 189.23 cm to 290.83 cm;
  - (ii) square cross section, sides 15.7 mm to 16.3 mm, length from 228.91 cm to 304.49 cm; or
  - (iii) triangular cross section, sides 20.6 mm to 20.9 mm, length from 198.75 cm to 263.53 cm;
- (cccvi) hot-rolled bars, designated as A-708; the foregoing of SAE Grade 1045; having the following chemical composition (percent by weight): carbon 0.43 to 0.50, manganese 0.60 to 0.90, silicon 0.15 to 0.30, phosphorus not greater than 0.04, sulfur not greater than 0.05, nickel not greater than 0.25 and chromium not greater than 0.20; no more than 0.4572 mm depth of decarburization; width 33.7 mm to 44.7 mm, thickness 6.9 mm to 9.0 mm, length from 194.94 cm to 307.98 cm;

- (cccvii) hot-rolled steel handrail shapes, designated as A-712; the foregoing roll formed, grade C1010 ASTMA29; having the following chemical composition (percent by weight): carbon not greater than 0.19, manganese 0.300 to 1.500, phosphorus not greater than 0.050, sulfur not greater than 0.050 and silicon not greater than 0.600; yield strength not less than 235 N/mm<sup>2</sup>, tensile strength 340 to 470 N/mm<sup>2</sup>, elongation 26 percent minimum; in one of the following shapes:
- (i) between 46 mm and 55 mm wide, a flat bottom, weight between 4.22 kg/m and 5.16 kg/m, length between 5.49 m and 6.71 m, top of profile having a concave radius of between 11.5 mm and 12.5 mm, with a convex radius between 24.5 mm and 25.5 mm on each side; edges having a radius between 4.0 mm and 5.0 mm, with a total depth of between 10 mm and 20 mm;
  - (ii) between 44 mm and 54 mm wide, a channel opening on underside of between 28 mm and 38 mm wide, a weight between 3.015 kg/m and 3.685 kg/m, length between 5.80 m and 6.41 m, top of profile having a concave radius between 11 mm and 21 mm, into a convex radius on each top side radius between 17 mm and 27 mm; total depth 14 mm to 24 mm; edge concave radius between 3 mm and 8 mm into a convex radius between 4 mm and 14 mm;
  - (iii) between 50 mm and 60 mm wide, a channel opening on underside between 35 mm and 45 mm wide, a weight between 3.55 kg/m and 4.33 kg/m, length between 5.49 m and 6.71 m, top of profile having a concave radius between 61 mm and 71 mm, edge radius between 2 mm and 12 mm, a total depth of 13 mm and 23 mm; or
  - (iv) between 52 mm and 62 mm wide, a channel opening on underside of between 30 mm to 50 mm wide, a weight between 2.86 kg/m and 3.50 kg/m, length between 5.80 m and 6.71 m, top of profile having a concave radius between 16 mm and 26 mm, into a convex radius on each topside with a radius between 10 mm and 20 mm, edge radius concave between 2 mm and 7 mm, into a convex radius between 3 mm and 13 mm;
- (cccviii) bars and rods of alloy steel, not further worked than hot-rolled, designated as A-717; the foregoing of rectangular cross section, 330 mm (plus or minus 3 mm) wide and between 19 mm and 41 mm (plus or minus 1.5 mm) high, with height-to-width ratio of between 6/100 and 12/100, mass from 45.5 kg/m to 102.5 kg/m (plus or minus 2 kg/m); tapered at an angle of 22.5 degrees (plus or minus 1 degree) on each of two symmetrical corners of the rectangular cross-section, thereby having one scraping/cutting edge on each side of the rectangle; having the following chemical composition (percent by weight): carbon 0.28 to 0.32, manganese 1.1 to 1.3, sulfur not greater than 0.025, phosphorus not greater than 0.025 and boron 0.001 to 0.003;
- (cccix) bars and rods of alloy steel, not further worked than hot-rolled, designated as A-717; the foregoing of rectangular cross section, width 120 mm and 152.4 mm (plus or minus 3 mm), thicknesses 15 mm to 20 mm (plus or minus 1.5 mm), with height-to-width ratio of between 10/100 and 13/100, mass from 12.2 kg/m to 21 kg/m (plus or minus 2 kg/m); tapered at an angle of 25 degrees (plus or minus 1 degree) on each of two symmetrical corners of the rectangular cross-section, thereby having one scraping/cutting edge on each side of the rectangle; having the following chemical composition (percent by weight): carbon 0.28 to 0.32, manganese 1.1 to 1.3, sulfur not greater than 0.025, phosphorus not greater than 0.025 and boron 0.001 to 0.003;
- (cccx) bars and rods of alloy steel, not further worked than hot-rolled, designated as A-717; the foregoing of rectangular cross section, in widths of 110 mm and 150 mm (plus or minus 3 mm), thickness 12 mm to 25 mm (plus or minus 1.5 mm), with height-to-width ratio between 11/100 and 17/100, mass 9.6 kg/m to 27.6 kg/m (plus or minus 2 kg/m); tapered at an angle between 21 degrees and 26.5 degrees (plus or minus 1 degree) on one corner of the rectangular cross-section, thereby having a scraping/cutting edge on one side of the rectangle; having the following chemical composition (percent by weight): carbon 0.28 to 0.32; manganese 1.1 to 1.3, sulfur not greater than 0.025, phosphorus not greater than 0.025 and boron 0.001 to 0.003;
- (cccxi) bars and rods of alloy steel, not further worked than hot-rolled; of rectangular cross section, 406 mm wide (plus or minus 3 mm) and between 22 mm and 41 mm high (plus or minus 1.5 mm), with height-to-width ratio of between 5/100 and 10/100, mass 65.3 kg/m to 125.8 kg/m (plus or minus 2 kg/m); tapered at an angle of 22.5 degrees (plus or minus 1 degree) on each of two symmetrical corners of the rectangular cross-section, thereby having one scraping/cutting edge on each side of the rectangle; having the following chemical composition (percent by weight): carbon 0.28 to 0.32; manganese 1.1 to 1.3; sulfur not over 0.025; phosphorus not over 0.025 and boron 0.001 to 0.003; the foregoing designated as A-717;.
- (cccxi) bars and rods of alloy steel, not further worked than hot-rolled; of rectangular cross section, 330 mm wide (plus or minus 3 mm) and between 19 mm and 41 mm high (plus or minus 1.5 mm), with height-to-width ratio of between 6/100 and 12/100, mass 45.5 kg/m to 102.5 kg/m (plus or minus 2 kg/m); tapered at an angle of 22.5 degrees (plus or minus

- 1degree) on each of two symmetrical corners of the rectangular cross-section, thereby having one scraping/cutting edge on each side of the rectangle; having the following chemical composition (percent by weight): carbon 0.32 to 0.37, manganese 1.1 to 1.45, sulfur not greater than 0.025, phosphorus not greater than 0.025, boron 0.001 to 0.003; the foregoing designated as A-717;
- (cccxiii) bars and rods of alloy steel, not further worked than hot-rolled; of rectangular cross section, 330 mm wide (plus or minus 3 mm) and between 19 mm and 41 mm high (plus or minus 1.5 mm), with height-to-width ratio of between 6/100 and 12/100, mass 45.5 kg/m to 102.5 kg/m (plus or minus 2 kg/m); tapered at an angle of 22.5 degrees (plus or minus 1degree) on each of two symmetrical corners of the rectangular cross-section, thereby having one scraping/cutting edge on each side of the rectangle; having the following chemical composition (percent by weight): carbon 0.17 to 0.23 percent, manganese 1.1 to 1.3, sulfur not greater than 0.02, phosphorus not greater than 0.02 and boron 0.001 to 0.004; the foregoing designated as A-717;
- (cccxiv) bars and rods of alloy steel, not further worked than hot-rolled; of rectangular cross section, 330 mm wide (plus or minus 3 mm) and between 19 mm and 41 mm high (plus or minus 1.5 mm), with height-to-width ratio of between 6/100 and 12/100, mass 45.5 kg/m to 102.5 kg/m (plus or minus 2 kg/m); tapered at an angle of 22.5 degrees (plus or minus 1degree) on each of two symmetrical corners of the rectangular cross-section, thereby having one scraping/cutting edge on each side of the rectangle; having the following chemical composition (percent by weight): carbon 0.19 to 0.24, manganese 1.25 to 1.45; sulfur not greater than 0.025, phosphorus not greater than 0.025 and boron 0.001 to 0.003; the foregoing designated as A-717;
- (cccxv) bars and rods of alloy steel, not further worked than hot-rolled; of rectangular cross section, 330 mm wide (plus or minus 3 mm) and between 19 mm and 41 mm high (plus or minus 1.5 mm), with height-to-width ratio of between 6/100 and 12/100, mass 45.5 kg/m to 102.5 kg/m (plus or minus 2 kg/m); tapered at an angle of 22.5 degrees (plus or minus 1degree) on each of two symmetrical corners of the rectangular cross-section, thereby having one scraping/cutting edge on each side of the rectangle; having the following chemical composition (percent by weight): carbon 0.72 to 0.78, manganese 0.75 to 0.95, sulfur not greater than 0.025 and phosphorus not greater than 0.025; the foregoing designated as A-717;
- (cccxvi) bars and rods of alloy steel, not further worked than hot-rolled; of rectangular cross section, 330 mm wide (plus or minus 3 mm) and between 19 mm and 41 mm high (plus or minus 1.5 mm), with height-to-width ratio of between 6/100 and 12/100, mass 45.5 kg/m to 102.5 kg/m (plus or minus 2 kg/m); tapered at an angle of 22.5 degrees (plus or minus 1degree) on each of two symmetrical corners of the rectangular cross-section, thereby having one scraping/cutting edge on each side of the rectangle; having the following chemical composition (percent by weight): carbon 0.30 to 0.34, manganese 1.00 to 1.15; sulfur not greater than 0.025, phosphorus not greater than 0.03 and boron 0.001 to 0.003; the foregoing designated as A-717;
- (cccxvii) bars and rods of alloy steel, not further worked than hot-rolled; of rectangular cross section, 406 mm wide (plus or minus 3 mm) and between 22 mm and 41 mm high (plus or minus 1.5 mm), with height-to-width ratio of between 5/100 and 10/100, mass 65.3 kg/m to 125.8 kg/m (plus or minus 2 kg/m); tapered at an angle of 22.5 degrees (plus or minus 1degree) on each of two symmetrical corners of the rectangular cross-section, thereby having one scraping/cutting edge on each side of the rectangle; having the following chemical composition (percent by weight): carbon 0.32 to 0.37, manganese 1.1 to 1.45, sulfur not greater than 0.025, phosphorus not greater than 0.025 and boron 0.001 to 0.003; the foregoing designated as A-717;
- (cccxviii) bars and rods of alloy steel, not further worked than hot-rolled; of rectangular cross section, 406 mm wide (plus or minus 3 mm) and between 22 mm and 41 mm high (plus or minus 1.5 mm), with height-to-width ratio of between 5/100 and 10/100, mass 65.3 kg/m to 125.8 kg/m (plus or minus 2 kg/m); tapered at an angle of 22.5 degrees (plus or minus 1degree) on each of two symmetrical corners of the rectangular cross-section, thereby having one scraping/cutting edge on each side of the rectangle; having the following chemical composition (percent by weight): carbon 0.17 to 0.23, manganese 1.1 to 1.3, sulfur not greater than 0.02, phosphorus not greater than 0.02, boron 0.001 to 0.004; the foregoing designated as A-717;
- (cccxix) bars and rods of alloy steel, not further worked than hot-rolled; of rectangular cross section, 406 mm wide (plus or minus 3 mm) and between 22 mm and 41 mm high (plus or minus 1.5 mm), with height-to-width ratio of between 5/100 and 10/100, mass 65.3 kg/m to 125.8 kg/m (plus or minus 2 kg/m); tapered at an angle of 22.5 degrees on each of two symmetrical corners of the rectangular cross-section, thereby having one scraping/cutting edge on each side of the rectangle; having the following chemical composition (percent by weight): carbon 0.19 to 0.24, manganese 1.25 to 1.45, sulfur not greater than 0.025, phosphorus not greater than 0.025 and boron 0.001 to 0.003; the foregoing designated as A-717;

- (cccxx) bars and rods of alloy steel, not further worked than hot-rolled; of rectangular cross section, 406 mm wide (plus or minus 3 mm) and between 22 mm and 41 mm high (plus or minus 1.5 mm), with height-to-width ratio of between 5/100 and 10/100, mass 65.3 kg/m to 125.8 kg/m (plus or minus 2 kg/m); tapered at an angle of 22.5 degrees (plus or minus 1 degree) on each of two symmetrical corners of the rectangular cross-section, thereby having one scraping/cutting edge on each side of the rectangle; having the following chemical composition (percent by weight): carbon 0.72 to 0.78, manganese 0.75 to 0.95, sulfur not greater than 0.025 and phosphorus not greater than 0.025; the foregoing designated as A-717;
- (cccxxi) bars and rods of alloy steel, not further worked than hot-rolled; of rectangular cross section, 406 mm wide (plus or minus 3 mm) and between 22 mm and 41 mm high (plus or minus 1.5 mm), with height-to-width ratio of between 5/100 and 10/100, mass 65.3 kg/m to 125.8 kg/m (plus or minus 2 kg/m); tapered at an angle of 22.5 degrees (plus or minus 1 degree) on each of two symmetrical corners of the rectangular cross-section, thereby having one scraping/cutting edge on each side of the rectangle; having the following chemical composition (percent by weight): carbon 0.30 to 0.34, manganese 1.00 to 1.15, sulfur not greater than 0.025, phosphorus not greater than 0.03 and boron 0.001 to 0.003; the foregoing designated as A-717;
- (cccxxii) hollow drill bars and rods of circular cross section, external diameter not less than 19.03 mm nor greater than 25.35 mm, internal diameter not less than 6.0 mm not more than 7.6 mm; having the following chemical composition (percent by weight): carbon 0.04 to 0.01, silicon 0.18 to 0.30, manganese 0.20 to 0.35, sulfur 0.009 to 0.020, phosphorus not over 0.025, nickel not over 0.020, chromium 0.91 to 1.19 and molybdenum 0.16 to 0.28; the foregoing designated as A-726;
- (cccxxiii) hollow drill bars and rods of circular cross section, external diameter not less than 19.03 mm not greater than 25.35 mm, internal diameter not less than 6.0 mm nor greater than 7.6 mm; having the following chemical composition (percent by weight): carbon 0.40 to 0.43, silicon 1.40 to 1.60, manganese 0.80 to 0.95, sulfur 0.010 to 0.020, phosphorus not over 0.025, nickel 0.40 to 0.50, chromium 0.60 to 0.80 and molybdenum 0.18 to 0.28; the foregoing designated as A-726;
- (cccxxiv) hollow drill bars and rods of circular or hexagonal cross section, with an external dimension not less than 22.17 mm and not greater than 60.0 mm, and an internal dimension not less than 6.7 mm nor more than 22.6 mm; having the following chemical composition (percent by weight): carbon 0.19 to 0.24, silicon 0.20 to 0.35, manganese 0.55 to 0.75, sulfur 0.010 to 0.025, phosphorus not over 0.020, nickel 2.80 to 3.10, chromium 1.20 to 1.40 and molybdenum 0.20 to 0.26; the foregoing designated as A-726;
- (cccxxv) hollow drill bars and rods of circular or hexagonal cross section, with an external dimension not less than 22.17 mm not more than 60.0 mm, and an internal dimension not less than 6.7 mm not more than 22.6 mm; having the following chemical composition (percent by weight): carbon 0.23 to 0.25, silicon 0.20 to 0.35, manganese 0.40 to 0.60, sulfur 0.010 to 0.025, phosphorus not over 0.020, nickel not over 0.25, chromium 3.00 to 3.50 and molybdenum 0.45 to 0.60; the foregoing designated as A-726;
- (cccxxvi) hot-rolled or forged plastic mold steel round bars, having the following chemical composition (percent by weight): carbon 0.08 to 0.18, silicon 0.30 to 0.60, manganese 1.20 to 1.80, phosphorus 0.03 maximum, sulfur 0.30 maximum, chromium 0.20 to 1.50, copper 0.50 maximum, nickel 3.00 to 5.00, molybdenum 0.50 maximum, vanadium 0.50 maximum and aluminum 0.80 to 2.00; displaying the following mechanical properties: hardness HRC 37 to 41, tensile strength 1,150 to 1,300 MPa, yield strength 830 to 950 MPa, reduction of area 35 to 55 percent, elongation 10 to 30 percent at room temperature; with Charpy-notch impact value of 54 N m/cm<sup>2</sup> = 25 ~ 50J, 2 mm U notch; displaying the following physical properties: coefficient of thermal expansion (plus or minus 10 percent):  $7.30 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$  for 25°C to 50°C,  $9.10 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$  for 25°C to 100°C,  $11.12 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$  for 25°C to 200°C,  $12.54 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$  for 25°C to 300°C, and  $13.57 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$  for 25°C to 400°C; coefficient of thermal conductivity at 100°C of  $24.14 \pm 10\%$  or at 200°C of  $25.3 \pm 10\%$  kcal/(m hr°C); the foregoing designated as A-728;
- (cccxxvii) galvanized, cold formed, steel channels; surface finish: smooth in-line galvanized zinc coating with mass of 100 g/m<sup>2</sup> minimum, applied after forming with the zinc coating further passivated to resist white rust; not further cold worked, not manufactured from pre-galvanized strip; length 3.048 m to 12.192 m; channel sizes: 230 x 75 mm, 200 x 75 mm, 180 x 75 mm, 150 x 75 mm, 125 x 65 mm, 100 x 50 mm, 75 x 40 mm with thicknesses of 4.0 and 5.0 or 6.0 mm and minimum yield strength 450 MPa and 300 x 90 mm with thicknesses of 7.0 mm or 8.0 mm and a minimum yield strength of 400 MPa; tolerances: squareness (angular tolerance) the included angle between the sides of a channel shall be 90 degrees, the maximum out-of-squareness of a channel shall be in accordance with the following: where the shorter leg length is not more than 50.8 mm,  $\pm 2.0$  degrees, where the shorter leg length is greater than 50.8 mm but not more than 76.2 mm,  $\pm 1.5$  degrees, where the shorter leg length is greater than 76.2 mm,  $\pm 1.0$  degree; twist: maximum angle of twist is 1 degree over 1 meter; feedstock fully killed, continuously cast steel, fine grain; maximum content of specified elements (percent by weight): carbon 0.20, manganese 1.60, silicon 0.10, aluminum 0.10, phosphorus 0.040 and sulfur

0.030, carbon equivalent of no more than 0.39; all channels produced from flat product (strip) having a uniform cross section (wall thickness); the foregoing designated as A-751;

- (cccxxviii) alloy steel, forged or rolled, black or bright bars, not further worked than forged, rolled or forged; diameters from 12 mm to 25 mm, lengths not more than 11 m; having the following chemical composition (percent by weight): carbon 0.28 to 0.36, silicon not more than 0.35, manganese 0.35 to 0.45, phosphorus not more than 0.035, sulfur not more than 0.015, chromium 0.75 to 0.95; molybdenum 0.55 to 0.75, nickel 3.20 to 3.50 and vanadium 0.15 to 0.20; the foregoing designated as A-774;
- (cccxxix) free machining steel flat bars, not further worked than hot-rolled; designated as A-779; in coils weighing not less than 1100 kg (2500 lb.) each; SAE 1215; physical dimensions (in cross-section): 33.5 mm (plus or minus 0.50 mm) by 24.0 mm (plus or minus 0.30 mm); secondary grain size of ASTM 5 and finer; free from surface defects deeper than 2 percent of diameter or 0.305 mm (which ever is greater); containing not more than 350 particles per square centimeter of oxide inclusions of with a diameter greater than 1 micrometer; having the following chemical composition (percent by weight): copper not greater than 0.15, chromium not greater than 0.10 and nickel not greater than 0.15; certified by importer as: continuously cast, BOF steel; coarse-grain practice with aluminum content no more than 0.006 percent by weight; reduction ratio 8 or more, and free from mixes as determined by 100 percent spectrometer testing;
- (cccxxx) special bar quality steel bars, hot rolled, square profile, designated as A-630 and entered in an aggregate annual quantity not to exceed 200 t, the foregoing not further worked than hot rolled, in sizes from 58.7 mm across flats up to and including 103.2 mm across flats, with a tolerance of minus 1.0 mm and plus 2.0 mm applied to each across flats dimension, having sharp corners defined as having corner radii not over 1.5 mm on sizes between 58.7 mm and 97 mm and not over 2.0 mm on sizes over 97 mm, in other-alloy steel grades, suitable for cold drawing into cold finished squares with sharp corners;
- (cccxxxi) hot-worked non-alloy steel bars, designated as A-630 and entered in an aggregate annual quantity not to exceed 50 t, the foregoing not further worked than hot rolled, in steel grade ASTM A752 GR50 type 2, in a special bar shape of rectangular type cross section with overall width 89.0 mm and of thickness 22.0 mm, with two side faces at 90 degrees to the long faces, one long face having an indent at each end described as 8.25 mm wide by 11.0 mm deep with side face angles inclined at 5 degrees, with a tolerance of plus and minus 1.5 mm applied to cross sectional dimensions, and a tolerance of plus and minus 2 degrees applied to all angular degrees; the special shape having 6 external corners and 2 internal corners;
- (cccxxxii) hot-rolled steel bars of rectangular section, designated as A-630 and entered in an aggregate annual quantity not to exceed 80 t, the foregoing not further worked than hot rolled, 45 mm wide and 45 mm thick, with a plus and minus tolerance of 1.5 mm applied to width and thickness dimensions, extra straight, in steel grade St 52-3, with a restricted chemical composition (percent by weight): aluminum 0.020 to 0.050, nitrogen 0.009 and total residual elements 0.15 maximum; with a minimum reduction ratio of 48.7 having been hot re-rolled from a direct cast bloom;
- (cccxxxiii) hot-rolled steel bars of rectangular section, designated as A-630 and entered in an aggregate annual quantity not to exceed 100 t, the foregoing not further than hot rolled, 55 mm in width and 55 mm in thickness, with a plus and minus tolerance of 1.5 mm applied to width and thickness dimensions, extra straight, in steel grade St 52-3, with a restricted chemical composition (percent by weight): aluminum 0.020 to 0.050, nitrogen 0.009 maximum and total residual elements 0.15 maximum; with a minimum reduction ratio of 72.7 having been hot re-rolled from a direct cast bloom;
- (cccxxxiv) free-cutting steel bars of rectangular section, designated as A-630 and entered in an aggregate annual quantity not to exceed 9 t, the foregoing not further worked than hot-rolled; thickness 26.19 mm; width 29.37 mm; with a plus and minus tolerance of 1.5 mm applied to width and thickness dimensions; with sharp corners; in steel grade AISI C1215; suitable for cold drawing;
- (cccxxxv) carbon steel bars, designated as A-630 and entered in an aggregate annual quantity not to exceed 5 t, the foregoing of rectangular section, not further worked than hot rolled; thickness 19.84 mm; width 30.16 mm; with a plus and minus tolerance of 1.5 mm applied to the width and thickness dimensions; with sharp corners; in steel grade AISI C1018; suitable for cold drawing;
- (cccxxxvi) special bar quality steel bars, designated as A-631 and entered in an aggregate annual quantity not to exceed 200 t, the foregoing in square profile; not further worked than hot rolled; in sizes from 58.7 mm across flats up to and including 103.2 mm across flats, with a tolerance of minus 1.0 mm and plus 2.0 mm applied to each across flats dimension; having sharp corners defined as having corner radii not over 1.5 mm on sizes between

58.7 mm and 97 mm and not over 2.0 mm on sizes over 97 mm; in 1200 series free-cutting steel grades; suitable for cold drawing into cold finished squares with sharp corners;

- (cccxvii) bars, designated as A-635, the foregoing not further worked than hot rolled; of grade SAE 5120 alloy steel; in flat rectangular profile; with sectional dimensions ranging from 12.12 mm to 20.07 mm in thickness and 153 mm to 257.18 mm width; with sharp corners; with a tolerance of plus and minus 1.5 mm applied to width and thickness dimensions;
- (cccxviii) bright finish hot-rolled, annealed, turned and polished steel bars, designated as A-642 and entered in an aggregate annual quantity not to exceed 325 t, the foregoing meeting the following characteristics: diameters of 75 and 80 mm in 5.5 to 7.5 meter lengths; having the following chemical composition (percent by weight): carbon 0.15 to 0.20, silicon not over 0.40, manganese 1.00 to 1.30, phosphorus not over 0.025, sulfur 0.20 to 0.35; chromium 1.00 to 1.30; molybdenum not over 0.05, nickel not over 0.15; aluminum 0.20 to 0.50; boron 0.001 to 0.003; copper not over 0.25, tin not over 0.025, titanium not over 0.005, calcium not over 0.003, antimony not over 0.005 and oxygen not over 0.0025; with the following other properties: surface finish free from pits, scratches, cracks, or seams; straight to within 1 mm per 1 m of length; grain size of 5 or finer according to American Standards for Testing Materials method A112 (ASTM A112); fracture toughness test (Fdyn) with a minimum of 49,000 N;
- (cccxix) irregular sections of non-alloy steel, designated as A-661, the foregoing not further worked than hot-rolled, hot-drawn, or extruded; having the following chemical composition (percent by weight): carbon 0.24 to 0.28, manganese 1.20 to 1.40, silicon 0.15 to 0.30, aluminum 0.015 to 0.035, vanadium 0.06 to 0.10, phosphorus not over 0.025, sulfur not over 0.025, chromium not over 0.15 and nickel not over 0.15; yield strength of not less than 440 N/mm<sup>2</sup>; tensile strength of not less than 600 N/mm<sup>2</sup>; elongation in 50 mm not less than 18 percent; physical dimensions of: two segments constituting one unitary and solid piece, respectively known as the base segment and the leg segment; cross section comprising an angle with the base segment horizontal and the leg segment joined vertically at 90 degrees to the upper right side of the base segment and with the height of the entire shape equaling the height of the base segment added to the height of the leg segment, totaling less than 80 mm; base segment having a height of 34.2 mm to 35.8 mm and width of 52.2 mm to 53.7 mm and the leg segment a height of 11.5 mm to 13.0 mm and width at the point it joins the base segment of 15 mm to 16 mm with one vertical side in line with the right side of the base segment and the other vertical side tapering away from the base segment at 20 degrees so that the width at the top of the leg segment is 11 mm to 12 mm; leg segment having 2 mm to 5 mm radius corners; base segment having a 7 mm to 9 mm by 7 mm to 9 mm chamfer on the lower right corner, a 7 mm to 9 mm high by 13 mm to 15 mm wide chamfer on the lower left side (diagonally from the leg segment) and a 6 mm to 7.5 mm by 6 mm to 7.5 mm chamfer on the upper left corner; weighing 14.6 to 15.0 kg/m;
- (cccxl) S-sections of non-alloy steel, designated as A-661, the foregoing not further worked than hot-rolled, hot-drawn, or extruded; having the following chemical composition (percent by weight): carbon 0.24 to 0.28, manganese 1.20 to 1.40, silicon 0.15 to 0.30, aluminum 0.015 to 0.035, vanadium 0.06 to 0.10, phosphorus not over 0.025, sulfur not over 0.025, chromium not over 0.15 and nickel not over 0.15; yield strength of not less than 440 N/mm<sup>2</sup>; tensile strength of not less than 600 N/mm<sup>2</sup>; elongation in 50 mm not less than 18 percent; with physical dimensions of: five segments joined at 90 degree angles to each other constituting one unitary and solid piece with a cross section view of an upright "S" with an overall height of 88.9 mm to 91.2 mm and width of 56.0 mm to 59.0 mm; having a top most horizontal segment 33.0 mm to 35.5 mm wide and an upper vertical segment 21.5 mm to 22.5 mm wide; middle horizontal segment 56.0 mm to 59.0 mm wide; lower vertical segment 13.0 mm to 14.0 mm wide and bottom horizontal segment 33.0 mm to 35.0 mm wide; with both the top and bottom horizontal segments having inside horizontal surfaces with 20-degree tapers to their ends; with an upper vertical segment with 7 mm to 9 mm by 7 mm to 9 mm chamfer on the upper left corner and a 9 mm to 11 mm high by 8 mm to 10 mm wide chamfer on the lower left corner; with the lower vertical segment having two outside 10.5 mm to 13.5 mm radii and two inside 4 mm to 6 mm radii; weighing 17.7 to 18.1 kg/m;
- (cccxli) irregular sections of non-alloy steel, designated as A-661, the foregoing not further worked than hot-rolled, hot-drawn, or extruded; having the following chemical composition (percent by weight): carbon 0.09 to 0.13, manganese 1.25 to 1.45, silicon 0.40 to 0.50, aluminum 0.01 to 0.04, vanadium 0.04 to 0.06, phosphorus not over 0.02, sulfur not over 0.02, chromium not over 0.20 and nickel not over 0.15; yield strength of not less than 355 N/mm<sup>2</sup>, tensile strength of between 490 and 630 N/mm<sup>2</sup>, and elongation in 50 mm not less than 22 percent, with physical dimensions of: two segments constituting one unitary and solid piece, respectively known as the base segment and the leg segment; the cross section view is of an irregular shaped angle with the base segment horizontal and the leg segment joined vertically at 90 degrees to the upper right side of the base segment and with the height of the entire shape equaling the height of the base segment added to the height of the leg segment, totaling 62.7 mm to 64.3 mm; the base segment having a height of 34.7 mm to 35.1 mm and width of 46.1 mm to 46.9 mm including the 6.6 mm to 8.4 mm x 7.7 mm to 11.3 mm protrusion;



the leg segment having a height of 27.6 mm to 29.6 mm with one vertical side in line with the right side of the base segment and the other vertical side tapering away from the base segment at 14 to 16 degrees so that the width at the top of the leg segment is 4.7 mm to 7.1 mm at the point the 1.7 mm to 3.3 mm radius tip begins; the tapered leg meeting the base segment with a 5.9 mm to 6.9 mm inside radius; the base segment having a 19 mm wide x 30 degree chamfer on the lower right corner; weight 13.2 kg/m to 13.6 kg/m;

- (cccxlii) irregular sections of non-alloy steel, designated as A-661, the foregoing not further worked than hot-rolled, hot-drawn, or extruded; having the following chemical composition (percent by weight): carbon 0.09 to 0.13, manganese 1.25 to 1.45, silicon 0.15 to 0.25, aluminum 0.01 to 0.04, vanadium 0.04 to 0.06, phosphorus not over 0.02, sulfur not over 0.02, chromium not over 0.20 and nickel not over 0.15; yield strength of not less than 355 N/mm<sup>2</sup>, tensile strength of between 490 and 630 N/mm<sup>2</sup>, and elongation in 50 mm not less than 22 percent, with physical dimensions of: two segments constituting one unitary and solid piece, respectively known as the base segment and the leg segment; the cross section view is of an irregular shaped angle with the base segment horizontal and the leg segment joined vertically at 90 degrees to the upper right side of the base segment and with the height of the entire shape equaling the height of the base segment added to the height of the leg segment, totaling 49.3 mm to 49.8 mm; the base segment having a height of 27.6 mm to 28.2 mm and width of 37.8 mm to 38.4 mm; the leg segment having a height of 21.0 mm to 22.1 mm with one vertical side in line with the right side of the base segment and the other vertical side tapering away from the base segment at 14 to 16 degrees so that the width at the top of the leg segment is 6.3 mm to 7.4 mm at the point the 2.2 mm to 3.8 mm radius tip begins; the tapered leg meeting the base segment with a 6.0 mm to 6.6 mm inside radius; the base segment having a 17.5 mm to 19.1 mm high x 50 degree chamfer on the lower right corner, a 8.3 mm to 9.9 mm high x 45 degree chamfer on the lower left corner, and a 11.6 mm to 13.7 mm high x 25 degree chamfer on the upper left corner offset in 3 mm from the left edge; the weight 7.7 kg/m to 8.1 kg/m;
- (cccxliii) irregular sections of non-alloy steel, designated as A-661, the foregoing not further worked than hot-rolled, hot-drawn, or extruded; having the following chemical composition (percent by weight): carbon 0.09 to 0.13, manganese 1.25 to 1.45, silicon 0.15 to 0.25, aluminum 0.01 to 0.04, vanadium 0.04 to 0.06, phosphorus not over 0.02, sulfur not over 0.02, chromium not over 0.20 and nickel not over 0.15; yield strength of not less than 355 N/mm<sup>2</sup>, tensile strength of between 490 and 630 N/mm<sup>2</sup>, and elongation in 50 mm not less than 22 percent, with physical dimensions of: a vertical section with a height that ranges from 23.7 mm to 24.3 mm and width that ranges from 27.7 mm to 28.3 mm, joined at 90 degrees to the center of the top horizontal section that has a width that ranges from 57.1 mm to 58.9 mm and a height that ranges from 9.7 mm to 11.3 mm to produce a frontal view of a "T" with the height of the entire shape equaling the height of the vertical section added to the thickness of the top horizontal section, totaling 34.0 mm to 35.0 mm; the top horizontal section having three depressions, one centered on the top side of the "T" that is 13 mm to 15 mm wide and 1.7 mm to 2.3 mm deep with the different surfaces blended into each other with 4.7 mm to 5.3 mm radii and the other two depressions on the vertical section side, one on each side of the vertical section, each with a radius of 9.8 mm to 10.5 mm and a depth of 1.5 mm to 2.7 mm; weight 10.1 kg/m to 11.1 kg/m;
- (cccxliv) irregular sections of non-alloy steel, designated as A-661, the foregoing not further worked than hot-rolled, hot-drawn, or extruded; having the following chemical composition (percent by weight): carbon 0.09 to 0.13, manganese 1.25 to 1.45, silicon 0.15 to 0.25, aluminum 0.01 to 0.04, vanadium 0.04 to 0.06, phosphorus not over 0.02, sulfur not over 0.02, chromium not over 0.20 and nickel not over 0.15; yield strength of not less than 355 N/mm<sup>2</sup>, tensile strength of between 490 and 630 N/mm<sup>2</sup>, and elongation in 50 mm not less than 22 percent, with physical dimensions of: two segments constituting one unitary and solid piece, respectively known as the base segment and the leg segment; the cross section view is of an angle with the base segment horizontal and the leg segment joined vertically at 90 degrees to the upper left side of the base segment and with the height of the entire shape equaling the height of the base segment added to the height of the leg segment, totaling 42.4 mm to 43.6 mm; the base segment having a height of 27.7 mm to 28.3 mm and width of 34.0 mm to 35.0 mm and the leg segment with a height of 14.7 mm to 15.3 mm and width of 9.7 mm to 11.3 mm with one vertical side in line with the left side of the base segment; the opposite vertical side having a depression with a radius of 9.9 mm to 10.5 mm and a depth of 1.5 mm to 2.7 mm; the base segment having an 18 mm to 21.5 mm high x 11.6 mm to 13.2 mm wide chamfer on the lower left side; the weight 7.4 kg/m to 8.0 kg/m;
- (cccxlv) S-sections of non-alloy steel, designated as A-661, the foregoing not further worked than hot-rolled, hot-drawn, or extruded; having the following chemical composition (percent by weight): carbon 0.09 to 0.13, manganese 1.25 to 1.45, silicon 0.15 to 0.50, aluminum 0.01 to 0.04, vanadium 0.04 to 0.06, phosphorus not over 0.02, sulfur not over 0.02, chromium not over 0.20 and nickel not over 0.15; yield strength of not less than 355 N/mm<sup>2</sup>, tensile strength of 490 N/mm<sup>2</sup> to 630 N/mm<sup>2</sup>, and elongation in 50 mm not less than 22 percent, with physical dimensions of: five segments joined at 90 degree angles to each other constituting one unitary and solid piece with a cross section view of an upright "S" with an overall height of 74.2 mm to 77.3 mm and width of 50.0 mm to 52.0 mm; the top most horizontal segment 25.0 mm to 27.5 mm wide, the upper vertical segment 13.5 mm to 14.5 mm wide, the middle horizontal segment 50.0 mm to 52.0 mm wide, the lower vertical segment 15.0 mm to 16.0 mm wide, and the bottom horizontal segment 31.2 mm to 33.2 mm wide; the top horizontal segment having an inside horizontal surface with a 20-degree taper to its end and

the bottom horizontal segment having an inside horizontal surface with a 12-degree taper to its end; the upper vertical segment having a 5 mm maximum radius on the upper left corner and a 8.0 mm to 9.5 mm high x 8.0 mm to 9.5 mm wide chamfer on the lower left corner; the lower vertical segment having a 9.2 mm to 10.8 mm radius on the upper right hand corner; all remaining corners having 1.5 mm to 6.5 mm radii; weight 13.5 kg/m to 13.9 kg/m;

- (cccxlvi) U - sections of non-alloy steel, designated as A-661, the foregoing not further worked than hot-rolled, hot-drawn, or extruded, with a chemical composition (percent by weight) of: carbon 0.15 to 0.20, manganese 0.60 to 0.90, silicon 0.15 to 0.35, phosphorus not over 0.04, sulfur not over 0.05; yield strength of not less than 275 N/mm<sup>2</sup>, tensile strength not less than 450 N/mm<sup>2</sup>, and elongation in 50 mm not less than 22 percent, with physical dimensions of: a center - bottom piece, of width of 45.3 mm to 48.9 mm and thickness of 13.5 mm to 14.5 mm, joined along the entire length of both long sides to horizontal pieces at a 90-degree angle; one side piece, of width of 13.5 mm to 14.5 mm and height of 27.5 mm to 28.5 mm, and the other side piece of width of 7.5 mm to 8.5 mm and height of 14.8 mm to 15.8 mm, protruding from the center-bottom piece in such a manner that the outside of each side piece is flush with the outside of the center-bottom piece to produce a frontal view of a squared-off "U" with the width of the entire shape equaling the width of the center-bottom piece; all inside and outside corners have a minimum 1 mm radius and maximum 5 mm radius;
- (cccxlvii) half round cross section steel bars, SAE Grade 1095, designated as A-708; the foregoing with not more than 0.4572 mm depth of decarburization on surface of steel; width from 39.9 mm to 40.6 mm, thickness from 11.3 mm to 11.8 mm, radius 24.5 mm to 24.8 mm; length from 189.23 cm to 290.83 cm, having the following chemical composition (percent by weight): carbon 0.90 to 1.0, manganese 0.30 to 0.50, silicon 0.15 to 0.30, phosphorus not over 0.04, sulfur not over 0.05, nickel not over 0.25 and chromium not over 0.20;
- (cccxlviii) hot-rolled steel bars, designated as A-765 and entered in an aggregate annual quantity not to exceed 325 t, the foregoing meeting the following characteristics: AISI C1055V, diameter not over 19.5 mm not less than 18.5 mm; length not over 161.5 mm not less than 159.0 mm; having the following chemical composition (percent by weight): carbon 0.53 to 0.58, silicon 0.15 to 0.35, manganese 0.70 to 0.90, phosphorus not over 0.030, sulfur not over 0.035, copper not over 0.25, nickel not over 0.20, chromium 0.07 to 0.20 and vanadium 0.100 to 0.150; grain size shall be more than 5.0 following measuring methods specified in JISG0552; hardness 20 to 26.5 on HRC scale; tensile strength not less than 834 MPa, yield strength not less than 539 MPa;
- (cccxlix) bars of nonalloy steel in hard metric sizes, designated as A-609; the foregoing not further worked than cold-drawn; of rectangular cross section; thickness 6 mm or more but not over 50 mm; width 10 mm or more but not over 150 mm; length not over 6.5 m; having the following chemical composition (percent by weight): carbon not over 0.20, manganese not over 1.4, phosphorus and sulfur not over 0.045 and silicon not over 0.25; tensile strength 340 N/mm<sup>2</sup> to 470 N/mm<sup>2</sup>, upper yield stress 235 N/mm<sup>2</sup> to 215 N/mm<sup>2</sup>;
- (cccl) cold finished nonalloy steel bars, of circular cross section, designated as A-611; the foregoing diameter not over 81 mm; surface hardened, precision ground; having the following chemical composition (percent by weight): carbon 0.50 to 0.57, silicon 0.15 to 0.35, manganese 0.40 to 0.70, phosphorus not over 0.025, sulfur not over 0.035 and aluminum 0.02 to 0.08; grain size of 6 or finer as per DIN 50601; hardness HV 670 to 840; surface finish maximum RMS 12; minimum hardness depth of 0.4 mm;
- (cccli) machined alloy steel flat and square bars to specification AISI 8620 to ASTM A29 (A331), designated as A-621; the foregoing in thickness 88.9 mm or more but not over 152.4 mm, width 127 mm or more but not over 304.8 mm; having the following chemical composition (percent by weight): carbon 0.18 to 0.23, manganese 0.70 to 0.90, silicon 0.15 to 0.35, sulfur 0.040 maximum, phosphorus 0.035 maximum, chromium of 0.40 to 0.60, molybdenum 0.15 to 0.25, nickel 0.40 to 0.70 and copper 0.350 maximum; length 3 m to 5 m;
- (ccclii) E-4130 cold drawn aircraft quality bars, designated as A-621; the foregoing being square bars with sides up to 16.00 mm and round bars up to 16.00 mm diameter, according to MIL S -6758, AMS-S-6758, AMS-2301, ASTM-A-331, AMS-6348, AMS-2304 or AMS-6370, Condition D4, latest revisions; having the following chemical composition (percent by weight): carbon 0.28 to 0.33, silicon 0.15 to 0.35, manganese 0.40 to 0.60, sulfur 0.025 maximum, phosphorus 0.025 maximum, chromium 0.80 to 1.10, molybdenum 0.10 to 0.25, nickel 0.25 maximum, copper 0.35 maximum; heat treated; random lengths of 3 m to 4 m;
- (cccliii) cold finished AISI 4140 aircraft quality square steel bars, designated as A-621; the foregoing to MIL & AMS-S-5626, AMS 6382, 2301, 2304, ASTM-A-331, AMS 6349 except condition D, COND C-4, latest revisions; up to 32.00 mm square; having the following chemical composition (percent by weight): carbon 0.38 to 0.43, silicon 0.15 to 0.35, manganese 0.75 to 1.00, sulfur 0.025 maximum, phosphorus 0.025 maximum, chromium 0.80 to 1.10, molybdenum 0.10 to 0.25, nickel 0.25 maximum and copper 0.35 maximum; annealed; length 3,000 mm or more but not over 4,000 mm;

- (cccliv) cold drawn aircraft quality E4340 steel bars, designated as A-621, the foregoing to ASTM-A-331, AMS 6415, 6409, 2310, 2301, 2304, MIL & AMS-S-5000, trans specs: BMS 728, AMS 6484, DMS 1555 Grade B, physical cond E, surface condition 4, latest revisions; having the following chemical composition (percent by weight): carbon 0.38 to 0.43, silicon 0.15 to 0.35, manganese 0.60 to 0.80, sulfur 0.025 maximum, phosphorus 0.025 maximum, chromium 0.70 to 0.90, molybdenum 0.10 to 0.25, nickel 1.65 to 2.00 and copper 0.35 maximum; normalized and sub-critically annealed; length 3 m to 4 m; the foregoing in one of the following cross sections:
- (i) hexagonal, up to 16.00 mm across flats;
  - (ii) round, up to 16.00 mm diameter; or
  - (iii) square, up to 16.00 mm across flats;
- (ccclv) unhardened cold drawn steel rounds (soft magnetic iron), designated as A-626, the foregoing with diameter 3 mm to 178 mm, in cut lengths; having the following chemical composition (percent by weight): carbon 0.15 to 0.27, silicon not over 0.05, manganese 0.12 to 0.22, phosphorus not over 0.012, sulfur not over 0.025 and chromium not over 0.05;
- (ccclvi) leaded alloy steel bars, designated as A-627, the foregoing in grade C45Pb, DIN 1.0504; having the following chemical composition (percent by weight): carbon 0.40 to 0.50, silicon not over 0.40, manganese 0.050 to 0.085, sulfur 0.020 to 0.040 and lead 0.15 to 0.30; cold drawn, eddy current and ultrasonically tested at a level of Flat Bottom Hole (FBH) less than 0.7 mm (specific calibration of ultrasonic testing equipment to sort out defective bars); microscopic cleanliness testing according to DIN50602 and without macroscopic inclusion and lead segregations detrimental for high pressure applications; tensile strength 690 N/mm<sup>2</sup> to 900 N/mm<sup>2</sup>; diameters up to 25.4 mm in random bar length, with mill test report according to DIN EN 10204/3.1B;
- (ccclvii) flat bars of nonalloy freecutting steel, designated as A-630, the foregoing not further worked than cold drawn; according to ASTM A29/A108; meeting one of the following cross sections:
- (i) thickness 26.16 mm or more but not over 48.26 mm, width 31.75 mm or more but not over 70.61 mm;
  - (ii) thickness 26.16 mm or more but not over 48.26 mm, width 166.1 mm or more but not over 374.6 mm;
  - (iii) thickness 15.88 mm or more but not over 19.81 mm, width 76.96 mm or more but not over 152.4 mm; or
  - (iv) thickness 51.56 mm or more but not over 76.2 mm, width 76.96 mm or more but not over 152.4 mm;
- (ccclviii) cold finished flat bars, designated as A-630; the foregoing in grade C1018 according to ASTM A29/A108, containing by weight not over 0.25 percent carbon; thickness 6.35 mm or more but not over 76.2 mm, width 203.2 mm or more but not over 355.6 mm; produced from bloom cast material; low residual value (not over 0.15 percent by weight) and nitrogen not over 0.009 percent (by weight); with sharp corners size tolerance of 0.203 mm;
- (ccclix) steel hexagonal bars, designated as A-630; the foregoing not further worked than cold finished, in sizes from 28.57 mm to 55.56 mm (inclusive), in grade C11L37 according to ASTM A29/A108, carbon content of 0.32 to 0.39 percent by weight;
- (ccclx) cold finished near-square rectangular keyway sections, designated as A-630, the foregoing of grade C1045 according to ASTM A29/A108; containing by weight 0.43 to 0.50 percent carbon, size 50.72 mm x 57.07 mm;
- (ccclxi) cold finished special sections, designated as A-630; the foregoing in grade C1018 according to ASTM A29/A108, containing by weight not over 0.25 percent carbon, 125.4 mm in width and 9.5 mm in thickness and four radius corners of 4.76 mm;
- (ccclxii) cold finished alloy steel bars, designated as A-630; the foregoing in grade SAE 4140 according to ASTM A29/A108; containing by weight 0.38 to 0.43 percent carbon; in nonstandard cross sectional shape being a segment of a circle, described by a radius of length 49.12 mm or 41.63 mm and an inclusive angle of 45 degrees, a tolerance of plus and minus 1.0 mm being applied to all cross sectional dimensions, and plus and minus 2 degrees being applied to all angular degrees;
- (ccclxiii) cold finished machined square bars, designated as A-630; the foregoing in grades C1018 and C1117 according to ASTM A29/A108 in sizes over 101.6 mm up to and including 160 mm, with sharp defined corners;

- (ccclxiv) cold finished square bars, designated as A-630; the foregoing in grade C1117 according to ASTM A29/A108, containing by weight not over 0.25 percent carbon, with dimensions 76.2 mm or more but not over 101.6 mm;
- (ccclxv) flat bars of non-alloy freecutting steel, designated as A-630; the foregoing not further worked than cold drawn, rectangular dimension of 20.64 mm thickness and 25.4 mm width according to ASTM A29/A108;
- (ccclxvi) alloy steel bars, designated as A-675; the foregoing in grade 18CrNi8 / DIN 1.5920; having the following chemical composition (percent by weight): carbon 0.15 to 0.20, silicon: 0.10 to 0.30, manganese 0.40 to 0.60, sulfur 0.015 to 0.025, chromium 1.80 to 2.10, nickel 1.80 to 2.10 and copper not over 0.35; oxygen content 30 ppm maximum; annealed, cold drawn and polished, eddy current and ultrasonically tested at a level FBH less than 0.7, with a microscopic cleanliness less than K3 maximum 10 according to DIN 50602 and without macroscopic inclusion detrimental for high pressure application as injector nozzle holder, in diameters up to 25.4 mm, in random bar length, with mill test report according to DIN EN10204/3.1.B;
- (ccclxvii) cold finished alloy steel round bars, designated as A-709; the foregoing in grade AMS 6304, annealed and ground; tensile strength not over 860 MPa; having the following chemical composition (percent by weight): carbon 0.40 to 0.50, manganese 0.40 to 0.70, silicon 0.15 to 0.35, phosphorus 0.025 maximum, sulfur 0.025 maximum, chromium 0.80 to 1.10, molybdenum 0.45 to 0.65, vanadium 0.25 to 0.35, nickel 0.25 maximum and copper 0.35 maximum; bar diameters from 6 mm to 27 mm, length 3 m to 6 m;
- (ccclxviii) cold finished alloy steel round bars, designated as A-709; the foregoing in grade SAE 4130, aerospace quality according to the requirements of AMS-S-6758 (formerly MIL-S-6758), hardened and tempered condition; tensile strength not less than 860 MPa, yield strength not less than 690 MPa, elongation not less than 17 percent of 50.8 mm gauge length, reduction of area not less than 55 percent; having the following chemical composition (percent by weight): carbon 0.28 to 0.33, manganese 0.40 to 0.60, silicon 0.15 to 0.35, phosphorus 0.025 maximum, sulfur 0.025 maximum, chromium 0.80 to 1.10, molybdenum 0.15 to 0.25, nickel 0.25 maximum and copper 0.35 maximum; bar diameter 6.3 mm to 25.4 mm, length 3 m to 6 m;
- (ccclxix) cold finished alloy steel round bars, designated as A-709; the foregoing in grade SAE 4340, according to the requirements of AMS 6484, normalized and tempered condition having hardness not over 322 Brinell; having the following chemical composition (percent by weight): carbon 0.38 to 0.43, manganese 0.65 to 0.85, silicon 0.15 to 0.35, phosphorus 0.025 maximum, sulfur 0.025 maximum, chromium 0.70 to 0.90, nickel 1.65 to 2.00, molybdenum 0.20 to 0.30 and copper 0.35 maximum; bar diameter 7.9 mm to 25.4 mm, length 3 m to 6 m;
- (ccclxx) cold finished alloy steel round bars, designated as A-709; the foregoing in grade SAE 4340H, annealed and cold drawn, with a structure of lamellar pearlite and partial spheroidization for good machinability; hardness not over 248 Brinell; having the following chemical composition (percent by weight): carbon 0.38 to 0.43, manganese 0.60 to 0.80, silicon 0.15 to 0.35, phosphorus 0.035 maximum, sulfur 0.040 maximum, chromium 0.70 to 0.90, nickel 1.65 to 2.00 and molybdenum 0.20 to 0.30; bar diameter 10.0 mm to 19.6 mm, length 3 m to 6 m;
- (ccclxxi) cold finished alloy steel round bars, designated as A-709; the foregoing in grade SAE 8740, according to the requirements of AMS 6322, annealed and cold drawn, with surface removal by micro-scalping, grinding or peeling to give a seam-free finish; tensile strength not higher than 825 MPa; hardness not over 241 Brinell; having the following chemical composition (percent by weight): carbon 0.38 to 0.43, manganese 0.75 to 1.00, silicon 0.15 to 0.35, phosphorus 0.025 maximum, sulfur 0.025 maximum, chromium 0.40 to 0.60, nickel 0.40 to 0.70, molybdenum 0.20 to 0.30 and copper 0.35 maximum; bar diameter 8.5 mm to 13.6 mm, length 3 m to 6 m;
- (ccclxxii) cold finished alloy steel hexagon bars, designated as A-709; the foregoing in grade SAE 8740, according to the requirements of AMS 6322, annealed and cold drawn; tensile strength not higher than 825 MPa; hardness not over 241 Brinell; having the following chemical composition (percent by weight): carbon 0.38 to 0.43, manganese 0.75 to 1.00, silicon 0.15 to 0.35, phosphorus 0.025 maximum, sulfur 0.025 maximum, chromium 0.40 to 0.60, nickel 0.40 to 0.70, molybdenum 0.20 to 0.30 and copper 0.35 maximum; bar size (across flats) 19.0 mm to 23.8 mm, length 3 to 6 m;
- (ccclxxiii) cold finished alloy steel round bars, designated as A-709; the foregoing in grade SAE 4140, according to the requirements of AMS 6382, annealed and cold drawn; tensile strength not higher than 860 MPa; hardness not over 241 Brinell; having the following chemical composition (percent by weight): carbon 0.38 to 0.43, manganese 0.75 to 1.00, silicon 0.15 to 0.35, phosphorus 0.025 maximum, sulfur 0.025 maximum, chromium 0.80 to 1.10, molybdenum 0.15 to 0.25, nickel 0.25 maximum and copper 0.35 maximum; bar diameter 6.3 mm to 12.7 mm, length 3 m to 6 m;

- (ccclxxiv) cold formed bars and rods, designated as A-752 and entered in an aggregate annual quantity not to exceed 5,000 t; the foregoing not further worked other than cold finished, thickness 12.0 mm or more but not over 15.00 mm; having the following chemical composition (percent by weight): carbon 0.43 to 0.50, manganese 0.85 to 1.15, silicon 1.45 to 1.60, phosphorus not over 0.025, sulfur not over 0.020, chromium 0.45 to 0.65 and vanadium 0.10 to 0.17; surface finish peeled (shiny finish), free from pits, cracks or seams; smooth edges; cut to length; certified free of all surface defects and verified by 100 percent eddy current inspection;
- (ccclxxv) alloy steel round bars (42CrMo4), designated as A-767; the foregoing 24.9 mm to 95 mm in diameter; length not over 3.65 m; quenched and tempered; induction hardened; ground and polished; finished to an f7 outside diameter tolerance; having the following chemical composition (percent by weight): carbon 0.38 to 0.45, manganese 0.60 to 0.90, silicon 0.15 to 0.40, chromium 0.90 to 0.120 and molybdenum 0.15 to 0.25; core tensile strength 800 MPa minimum; induction hardened surface hardness of not less than 55 and not over 60 HRC; maximum surface roughness rating of Ra equal to 0.6 micrometer for finished round bar;
- (ccclxxvi) scaleless oil tempered finish, carbon steel flat "brush wire," designated as A-786; the foregoing with round edges, drawn and cold rolled from wire rod, and in-line oil hardened, tempered and cut to length, thickness not over 0.61 mm; width not over 3.43 mm; length not over 665 mm; having the following chemical composition to AISI 1050 (percent by weight): carbon 0.50 to 0.55, silicon 0.15 to 0.35, manganese 0.50 to 0.70, phosphorus not over 0.02, sulfur not over 0.025, chromium not over 0.05 and nickel not over 0.05; tensile strength 1300 N/mm<sup>2</sup> or more but not over 1500 N/mm<sup>2</sup>, hardness not less than HRa 70.1 but not over HRa 72.4; camber not over 3.8 mm in 665 mm; smooth rolled round edges; surface finish free from scale, pits, scratches, rust, cracks or seams;
- (ccclxxvii) cold finished steel bars, of SAE 4150 DH, AQ steel, designated as A-607; the foregoing quenched, tempered and turned and polished; manufactured from killed steel, which has been vacuum degassed; forged or rolled, having undergone forging of the ingots to reduce their size before hot rolling; forged or rolled to a forging ratio of 6S from ingot or bloom; free of cracks, seams voids or inclusions, which could weaken the material or develop into a defect during further processing, after turn and polishing; residual magnetism less than 10 gauss; surface roughness less than 10S after straightening; diameter allowance tolerance 0 or more but not over 0.15 mm; physical dimensions: 10.2, 15.2, 16.2, 20.2, 22.2, 25.2, 28.2, 32.2, 36.3, 38.3, 40.2, 44.3, 45.3, 50.3 or 63.3 mm; circularity tolerance less than 0.05 mm; straightness tolerance not over 0.5 mm/m; hardness after quench and temper HRC 24 to 32 at the surface, core and throughout the bar; variation from core to surface from one end to the other not over 5HRC; macrostructure not exceeding S2, R2 and C2 of the Plate 1 of visual aid of ASTM E381-94; banding on the microstructure conforming to S5 of ASTM A534-94; average austenite grain size 6 or finer and uniform so that no grains of 3 sizes or coarser exist, according to ASTM E112-96 and ASTM E930-92; non-metallic inclusions inspected by ASTM E45-97 shall not exceed the rating in Table 2 of ASTM A534-94;
- (ccclxxviii) cold drawn aircraft quality E-4130 steel bars, designated as A-621, the foregoing having hexagonal cross section of not over 16.00 mm across flats; meeting the following specifications: MIL - S -6758, AMS-S-6758, AMS-2301, ASTM-A-331, AMS-6348, AMS-2304, and AMS-6370; condition D4, spec latest revisions; having the following chemical composition (percent by weight): carbon 0.28 to 0.33, silicon 0.15 to 0.35, manganese 0.40 to 0.60, sulfur not over 0.025, phosphorus not over 0.025, chromium 0.80 to 1.10, molybdenum 0.10 to 0.25, nickel not over 0.25 and copper not over 0.35; heat treated; length 3,000 mm to 4,000 mm;
- (ccclxxix) cold finished bars, designated as A-629 and entered in an aggregate annual quantity not to exceed 835 t; with the following characteristics: cold finished, killed steel, normalized, peeled to a tolerance of +0.6 mm, -0, and stress relieved, coarse grain practice (range of 2 to 5); having the following chemical composition (percent by weight): carbon 0.37 to 0.45, phosphorus not over 0.040, manganese 1.35 to 1.65, sulfur 0.08 to 0.13 and silicon 0.10 to 0.20; manufactured to the following sizes: 157.15 mm rolled diameter, 168.84 mm rolled diameter, 199.30 mm rolled diameter or 238.13 mm rolled diameter; certified to have a Rockwell B hardness that increases from the outer surface to the core; certified to be prepared with the following heat treatment: normalized by heating from a cold charge at the rate of 50°C per hour to 400°C, from 400°C to 850°C at any rate; hold at 850°C for 30 minutes per inch (71 s/mm) of diameter; cooled in still air and peeled; stress relieved by heating from a cold charge at the rate of 50 °C per hour to 400 °C, from 400 °C to 600°C heat at any rate; hold at 600 °C for one hour per inch (142 s/mm) of diameter; cooled down at rate of 100°C per hour to 350°C and then air cooled;
- (ccclxxx) cold finished steel bars, the foregoing designated as A-629 and entered in an aggregate annual quantity not to exceed 550 t; with the following characteristics: cold finished bars, killed steel, normalized, peeled to a tolerance of +0.6 mm, -

0, and stress relieved, coarse grain practice range of (2-5); having the following chemical composition (percent by weight): carbon 0.43 to 0.50, phosphorus not over 0.040, silicon 0.15 to 0.20, molybdenum not over 0.06, copper 0.35, manganese 0.60 to 0.90, sulfur 0.02 to 0.050, chromium not over 0.20 and nickel not over 0.25; manufactured to the following sizes: 114.52 mm rolled diameter, 126.79 mm rolled diameter, 138.94 mm rolled diameter or 150.38 mm rolled diameter; certified to have a Rockwell B hardness that increases from the outer surface hardness to the core; certified to be prepared with the following heat treatment (thermal recipe): normalized by heating at 50°C per hour to 400°C, then heated to 850°C at any rate; soaked at 850°C for 30 minutes per inch (71 s/mm) in diameter; cooled in still air to ambient and peeled; stress relieved by heating at 50°C per hour to 400°C, then heated to 550°C at any rate; soaked at 550°C for one hour per inch (142 s/mm) in diameter; cooled at a rate of 100°C maximum per hour to 350°C; cooled in still air;

- (ccclxxxi) cold-drawn T-sections of non-alloy steel, designated as A-661, the foregoing not further worked than cold formed or cold finished; having the following chemical composition (percent by weight): carbon 0.14 to 0.20, manganese 1.20 to 1.50, silicon 0.15 to 0.50, aluminum 0.01 to 0.07, vanadium 0.04 to 0.06, phosphorus not over 0.02, sulfur not over 0.02, chromium not over 0.20 and nickel not over 0.15; yield strength of not less than 482 N/mm<sup>2</sup>, tensile strength of not less than 620 N/mm<sup>2</sup>; elongation in 50 mm not less than 14 percent; with physical dimensions: vertical section with height of 37.2 mm or more but not over 57.8 mm and width 10.7 mm or more but not over 15.3 mm; joined at 90 degrees to the center of the top horizontal section that has a width of 44.2 mm or more but not over 66.3 mm and a height of 15.7 mm or more but not over 21.3 mm to produce a frontal view of a "T" with the height of the entire shape equaling the height of the vertical section added to the thickness of the top horizontal section, totaling less than 80 mm; all six of the section's outside corners having radii of 1.0 mm to 2.0 mm and the two inside corners having radii of 2.5 mm or more but not over 4.5 mm; weight per m ranging from 8.7 kg to 17.9 kg;
- (ccclxxxii) irregular sections of iron or non-alloy steel, designated as A-661, the foregoing not further worked than cold formed or cold finished; having the following chemical composition (percent by weight): carbon 0.09 to 0.13, manganese 1.25 to 1.45, silicon 0.15 to 0.50, aluminum 0.01 to 0.04, vanadium 0.04 to 0.06, phosphorus not over 0.02, sulfur not over 0.02, chromium not over 0.20 and nickel not over 0.15; yield strength of not less than 355 N/mm<sup>2</sup>, tensile strength 490 N/mm<sup>2</sup> to 630 N/mm<sup>2</sup>; elongation in 50 mm not less than 22 percent, with physical dimensions of: two segments constituting one unitary and solid piece, respectively known as the half-round segment and rectangular segment; half-round segment having a radius of 26.15 mm to 27.15 mm; rectangular segment 52.3 mm to 54.3 mm high and 26.9 mm to 28.7 mm wide joined on one 52.3 mm to 54.3 mm side to the half-round segment and the opposite side having a 4.2 mm to 5.2 mm radius on one corner and the other corner having a 4.4 mm to 4.8 mm x 11.0 mm to 11.5 mm notch with the 11 mm side parallel to the flat side of the half-round segment; notch blends into the long and short sides of the rectangular segment with 3 mm to 4.8 mm chamfers; weight 19.6 kg/m to 20.0 kg/m;
- (ccclxxxiii) cold-finished bars of alloyed steel, designated as A-744, the foregoing being rounds with diameters of 25 mm or more but less than 48 mm, quenched and tempered with qualities according to specifications AISI/SAE 4130, 4140, 4145, or 4150;
- (ccclxxxiv) cold-finished bars of alloyed steel, designated as A-744, the foregoing being rounds with diameters of 24 mm or more but less than 48 mm, quenched and tempered with qualities according to specifications AISI/SAE 4340;
- (ccclxxxv) cold-finished bars of alloyed steel, designated as A-744, the foregoing being rounds with diameters of 24 mm or more but less than 48 mm, quenched and tempered with qualities according to specifications AISI/SAE 8620;
- (ccclxxxvi) round cold finished bars, designated as A-810 and entered in an aggregate annual quantity not to exceed 13,000 t; the foregoing cold finished, peeled, steel grades AISI(SAE) 1018, 1020, 1040 or 1045; killed; permissible curvature 1 mm on 1 m length; diameter from 306 mm to 330 mm;
- (ccclxxxvii) round cold finished bars, designated as A-810 and entered in an aggregate annual quantity not to exceed 1,700 t; the foregoing cold finished, peeled, steel grades AISI(SAE) 4140, 4142, 4150, 4340; killed; permissible curvature 1 mm on 1 m length; diameter from 306 mm to 330 mm;
- (ccclxxxviii) round cold finished bars, designated as A-810 and entered in an aggregate annual quantity not to exceed 300 t; the foregoing cold finished, peeled, steel grade AISI(SAE) 8620; killed; permissible curvature 1 mm on 1 m length; diameter from 306 mm to 330 mm;

- (ccclxxxix) hot-rolled thread bars, designated as A-769; the foregoing of grade 95, diameter 18 mm to 75 mm; meeting the following characteristics: hot-rolled and tempered bars of non alloy steel with deformations forming a screwable right hand thread, in diameters of 18 mm, 22 mm, 25 mm, 28 mm, 30 mm, 35 mm, 43 mm, 50.5 mm, 63.5 mm or 75 mm, complying with ASTM A615 with deformations being spaced along the bar at substantially uniform distances ranging from 8 mm to 24 mm; water quenched and tempered; having the following chemical composition (percent by weight): carbon 0.19 to 0.28, silicon 0.38 to 0.64, manganese 1.3 to 1.5, phosphorus not over 0.04, sulfur not over 0.03 and chromium 0.30 to 0.35; with the following other properties: a yield strength of not less than 670 MPa, a tensile strength of not less than 800 MPa and elongation on a 10 diameter gage of not less than 16 percent for diameters up to 43 mm and not less than 10 percent for diameters greater than 43 mm;
- (cccxc) hot-rolled thread bars, designated as A-769, the foregoing of grade 150, diameter 40 mm to 75 mm; meeting the following characteristics: hot-rolled and tempered bars of nonalloy steel with deformations forming a screwable right hand thread; diameter 40 mm, 47 mm, 57.5 mm, 63 mm or 75 mm; complying with ASTM 722 for Type II with deformations being spaced along the bar at substantially uniform distances ranging from 20 mm to 30 mm, water quenched and tempered, cold stretched and annealed; having the following chemical composition (percent by weight): carbon 0.60 to 0.80, silicon 0.15 to 0.45 manganese 0.5 to 1.0, phosphorus not over 0.035 and sulfur not over 0.035; with the following other properties: a yield strength of not less than 950 MPa and a tensile strength of not less than 1050 MPa for diameters 40 mm and 47 mm and a yield strength of not less than 830 MPa and a tensile strength of not less than 1035 MPa for diameters 57.5 mm and larger, and elongation on a 10 diameter gage of not less than 7 percent;
- (cccxcii) hot-rolled weldable thread bars, designated as A-769, the foregoing of grade 145; diameter 12.5 mm to 20 mm; meeting the following characteristics: hot-rolled and tempered bars of nonalloy steel with deformations forming a screwable right hand thread; diameter 12.5 mm, 15 mm or 20 mm; with deformations being spaced along the bar at substantially uniform distances ranging from 6 mm to 10 mm; water quenched and tempered; having the following chemical composition (percent by weight): carbon 0.18 to 0.22, silicon 0.43 to 0.47, manganese 1.4 to 1.6, phosphorus not over 0.035 and sulfur not over 0.035; with the following other properties: a yield strength of not less than 1000 MPa, a tensile strength of not less than 1100 MPa, and elongation on a 10 diameter gage of not less than 10 percent;
- (cccxciii) hot-rolled thread bars, grade 150, designated as A-769, the foregoing in diameter 18 mm; meeting the following characteristics: hot-rolled and tempered bars of nonalloy steel with deformations forming a screwable right hand thread; complying with ASTM 722 for Type II with deformations being spaced along the bar at substantially uniform distances ranging from 7 mm to 9 mm; water quenched and tempered; cold stretched and annealed; having the following chemical composition (percent by weight): carbon 0.60 to 0.80, silicon 0.15 to 0.45, manganese 0.5 to 1.0, phosphorus not over 0.035 and sulfur not over 0.035; with the following other properties: a yield strength of not less than 950 MPa, a tensile strength of not less than 1050 MPa, and elongation on a 10 diameter gage of not less than 7 percent;
- (cccxciv) cold finished stainless steel bars of circular cross section, designated as A-611; the foregoing with diameter not over 81 mm; surface hardened; precision ground; having the following chemical composition (percent by weight): carbon 0.42 to 0.50, silicon 0.30 to 1.00, manganese 0.20 to 1.00, phosphorus not over 0.045, sulfur not over 0.030, chromium 12.5 to 14.5; grain size of 6 or finer as per DIN 50601; hardness HV 550 to 620; surface finish maximum RMS 12; minimum hardness depth of 0.4 mm;
- (cccxcv) cold finished stainless steel bars of circular cross section, designated as A-611; the foregoing with diameter not over 81 mm; surface hardened; precision ground; having the following chemical composition (percent by weight): carbon 0.85 to 0.95, silicon not over 1.00, manganese not over 1.00, phosphorus not over 0.045, sulfur 0.015 to 0.030, chromium 17.0 to 19.0, molybdenum 1.0 to 1.3 and vanadium 0.07 to 0.12; grain size of 8 or finer as per DIN 50601; hardness HV 550 to 620; surface finish maximum RMS 12; minimum hardness depth of 0.4 mm;
- (cccxcvi) modified chemistry AISI 400 stainless sulfurized plastic mold steel, designated as A-626; the foregoing if round sections with diameter from 12 mm to 500 mm; if flat sections with thickness 12 mm to 350 mm and width 45 mm to 1250 mm; having the following chemical composition (percent by weight): carbon 0.02 to 0.14, silicon 0.10 to 0.60, manganese 0.50 to 1.45, phosphorus not over 0.04, sulfur 0.08 to 0.25, chromium 12.4 to 15.2, nickel 0.20 to 1.80, molybdenum 0.05 to 1.0, vanadium not over 0.25, nitrogen 0.02 to 0.12, copper not over 0.45 and aluminum not over 0.030; hydrogen not over 7.0 parts per million; cleanliness according to ASTM E45/87, Method A plate I: Slag type A: T-, H-; Slag type B: T 2.0, H2.0; Slag type C: T 1.0, H 1.0; Slag type D: T 2.0, H less than 1.0; hardness of 260 to 360 Brinell;
- (cccxcvii) precipitation hardening stainless mold steel, designated as A-626; the foregoing if round sections with diameter 12 mm to 400 mm; if flat sections with thickness 12 mm to 306 mm and width 150 mm to 762 mm; having the following chemical composition (percent by weight): carbon 0.025 to 0.035, silicon 0.20 to 0.40, manganese 0.20 to 0.40, phosphorus not over 0.020, sulfur not more than 0.030, chromium 11.8 to 12.2, nickel 9.00 to 9.50, molybdenum 1.30

to 1.50, titanium not over 0.010, nitrogen not over 0.010, niobium not over 0.005, zirconium not over 0.005, copper not over 0.20 and aluminum 1.60 to 1.80, hydrogen not over 3 parts per million; cleanliness according to ASTM E45/97, Method A plate 1-r: Slag type A: T-, H-; Slag type B: T less than 1.5, H less than 1.0; Slag type C: T less than 1.0, H less than 1.0; Slag type D: T less than 1.5, H less than 1.0;

- (ccxcvii) modified chemistry AISI 400 stainless sulfurized plastic mold steel, designated as A-626; the foregoing if round sections with diameter 12 mm to 27.9 mm; if flat sections with thickness 12 mm to 42.9 mm and width 300 mm to 1016 mm; having the following chemical composition (percent by weight): carbon 0.31 to 0.36, silicon 0.20 to 0.50, manganese 1.20 to 1.50, phosphorus not over 0.035, sulfur 0.08 to 0.15, chromium 15.2 to 17.0, nickel 0.40 to 0.70, molybdenum not over 0.60, vanadium not over 0.40, nitrogen not over 0.14, copper not over 0.30 and aluminum not over 0.030; hydrogen not over 7.0 parts per million; cleanliness according to ASTM E45/87, Method A plate 1.: Slag type A: T-, H-; Slag type B: T 2.0, H 2.0; Slag type C: T 1.0, H 1.0; Slag type D: T 2.0, H less than 1.0; hardened and tempered hardness of 260 to 400 Brinell;
- (ccxcviii) forged, pre-hardened, martensitic stainless steel bars, designated as A-669; the foregoing in modified AISI 420; having the following chemical composition (percent by weight): carbon 0.28 to 0.38, silicon not over 1.0, manganese 1.00 to 1.40, sulfur 0.05 to 0.10 and chromium 15.0 to 17.0; hardness in as supplied condition of 280 to 355 HB (Brinell Hardness) (29 to 38 HRC); thickness 133 mm to 229 mm and width 280 mm to 1,100 mm; in a black cold-finished condition;
- (ccxcix) stainless steel bars, designated as A-805; the foregoing 20 to 30 percent air by volume, permeated with interconnecting pores of three (3) to twenty (20) micrometers diameter to allow passage of gas through the steel; produced from a mixture of ferritic stainless steel long fibers having a width of 100 micrometer or less, and ferritic stainless steel powder, all of which are compressed in a cold isostatic press, sintered in a vacuum atmosphere, and then held in nitrogen gas or ammonia gas at a temperature of 900 to 1050°C to impart porous quality over the entire surface; hardness HRC 35 to 40, tensile strength 441 MPa to 490 MPa; heat transfer coefficient (at room temperature) of 2.0993 to 2.3994 kilocalories  $m^{-2} h^{-1} ^\circ C^{-1}$ ; linear expansion (at 20 to 150°C) of  $12 \times 10^{-6}$  to  $12.5 \times 10^{-6} ^\circ C^{-1}$ ; having the following chemical composition (percent by weight): carbon 0.001 to 0.100, silicon 0.25 to 1.75, manganese 0.05 to 0.50, phosphorus 0.005 to 0.075, sulfur 0.001 to 0.100, nickel 0.050 to 0.500, chromium 10.00 to 20.00 and molybdenum 0.50 to 3.00;
- (cd) stainless steel bars further worked than cold finished and formed, designated as A-806; the foregoing with diameter 41 mm to 106 mm; having the following chemical composition (percent of weight): carbon 0.28 to 0.34, manganese 0.30 to 0.60, silicon 0.30 to 0.80, phosphorus not over 0.020, sulfur not over 0.010, chromium 14.5 to 16.0, molybdenum 0.95 to 1.10, nitrogen 0.35 to 0.44 and nickel not over 0.30; or
- (cdi) stainless steel non-magnetic wire, designated as A-793; the foregoing having the following chemical composition (percent by weight): carbon 0.07 to 0.12, silicon not over 1.00, manganese 9.00 to 10.00, phosphorus not over 0.030, sulfur not over 0.030, chromium 17.5 to 19.0, nitrogen 0.20 to 0.35 and nickel 5.0 to 6.0; diameter 0.500 mm to 3.493 mm, a diameter tolerance of  $\pm 0.020$  mm after annealing, an out-of-round tolerance of 0.020 mm after annealing; tensile strength 750 N/mm<sup>2</sup> to 2,200 N/mm<sup>2</sup>, and magnetic permeability of 1.010 maximum; maximum surface crack depth 0.03 mm;
- (cdii) quick coupler ball-and-socket fittings of steel, designated as A-698; the foregoing in the following shapes: balls; sockets; lever closure rings; socket end caps; end balls; elbows; step bows; tees; reducers; enlargers; strainers; flanged connections with a ball; flanged connections with a socket; balls with nominal pipe threads on one end; sockets with nominal pipe threads on one end, hose connections and components thereof; all the foregoing whether galvanized or not, of which each fitting is capable of being attached to another by means of a ball-and-socket connection and secured by a lever closure; with the internal diameter of the end of each fitting 40 mm or more but not over 350 mm;
- (cdiii) round electric welded steel tubing, designated as A-605; the foregoing with outside diameter greater than 20 mm but less than 50 mm; wall thickness greater than 2.0 mm but less than 7.00 mm; having the following chemical composition (percent by weight): carbon 0.14 to 0.18, silicon 0.05 to 0.30, manganese 0.60 to 1.20, phosphorus 0.020 maximum, sulfur 0.006 maximum and niobium 0.005 to 0.040; tensile strength 590 to 740 N/mm<sup>2</sup>, yield strength 520 to 665 N/mm<sup>2</sup>, minimum elongation 15 percent;
- (cdiv) steel brazed double wound or electric resistance welded steel tubing, designated as A-605; the foregoing with outside diameter greater than 4.0 mm but less than 20 mm; wall thickness greater than 0.4 mm but less than 2.1 mm; having the following chemical composition (percent by weight): carbon 0.12 maximum, silicon 0.35 maximum, manganese 0.60 maximum, phosphorus 0.040 maximum and sulfur 0.040 maximum; mechanical properties: tensile strength 290 N/mm<sup>2</sup>



minimum, yield strength 175 N/mm<sup>2</sup> minimum, 25 percent minimum elongation; inside of tube having copper plating 3 micrometer minimum thickness, outside of tube having yellow zinc dichromate plating;

- (cdv) galvanized welded steel circular tubes, designated as A-634; the foregoing with plain square cut ends produced in accordance with ASTM A120 (E-H); outer diameter 19.30 mm to 28.60 mm, 31.40 mm to 44.40 mm, 46.00 mm to 62.40 mm, 71.00 mm to 91.00 mm, 99.50 mm to 116.40 mm or 139.10 mm to 170.40 mm; inside diameter 14.10 mm to 21.30 mm, 25.00 mm to 37.50 mm, 39.20 mm to 54.91 mm, 61.10 mm to 80.50 mm, 88.50 mm to 105.00 mm or 126.50 mm to 157.00 mm, respectively; wall thickness 2.00 mm to 2.90 mm, 3.00 mm to 3.50 mm, 3.51 mm to 3.80 mm, 4.70 mm to 5.40 mm, 5.41 mm to 5.85 mm or 5.86 mm to 6.90 mm, respectively; 2,962 mm to 3,063 mm in length; chamfered to eliminate sharp edges on both ends; zinc coating on the outside to a thickness of 0.02 mm to 0.05 mm; physical properties: elongation 45 to 50 percent; hardness 58 to 72 Rockwell B; AISI C1012; having the following chemical composition (percent by weight): iron 97 to 99, carbon 0.25, manganese 0.99; phosphorus 0.035, sulfur 0.035, zinc coating 0.50 to 0.99 and aluminum 0.01 to 0.10;
- (cdvi) coated brazed double wall steel tubing of circular cross section, designated as A-641; the foregoing with tubing characteristics: outer diameter not greater than 8 mm; wall thickness not greater than 0.7 mm; having the following chemical composition (percent by weight): 0.15 maximum carbon, 0.60 maximum manganese, 0.05 maximum phosphorus and 0.05 maximum sulfur; tubes coated with the following materials, in order from the innermost material: zinc plating minimum 13 micrometer thickness, primer coating of approximately 10 micrometer thickness, Polyamide 11 coating thickness of 10 micrometer to 200 micrometers (mechanical properties of Polyamide 11 (nylon coating): specific gravity of 1.03 at 23 °C; melt point of 183 to 187 °C; yield strength of 42 MPa; yield elongation of 8 percent, ultimate strength of 53 MPa; ultimate elongation of 300 percent and Rockwell hardness of 108); polypropylene coating thickness 0.60 mm to 1.3 mm;
- (cdvii) coated welded single wall steel tubing of circular cross section, designated as A-641; the foregoing with tubing characteristics: outer diameter not greater than 8 mm; wall thickness not greater than 0.7 mm; having the following chemical composition (percent by weight): 0.15 maximum carbon, 0.60 maximum manganese, 0.05 maximum phosphorus and 0.05 maximum sulfur; tubes coated with the following materials, in order from the innermost material: zinc plating minimum 13 micrometer thickness; primer coating of approximately 10 micrometer thickness; Polyamide 11 coating thickness of 10 micrometer to 200 micrometer, the mechanical properties of Polyamide 11 (nylon coating) are as follows: specific gravity of 1.03 at 23 °C; melt point 183 to 187 °C; yield strength 42 MPa; yield elongation 8 percent; ultimate strength 53 MPa; ultimate elongation 300 percent; Rockwell hardness of 108;
- (cdviii) coated welded single wall steel tubing of a circular cross section, designated as A-641; the foregoing with tubing characteristics: outer diameter not greater than 12 mm, wall thickness not greater than 0.9 mm; having the following chemical composition (percent by weight): 0.15 maximum carbon, 0.60 maximum manganese, 0.05 maximum phosphorus and 0.05 maximum sulfur; tubes are coated with the following materials, in order from the innermost material: zinc plating minimum 13 micrometer thickness, primer coating of approximately 10 micrometer thickness, Polyamide 11 coating thickness of 10 micrometer to 200 micrometer (mechanical properties of Polyamide 11 (nylon coating) are as follows: specific gravity 1.03 at 23 °C; melt point 183 to 187 °C; yield strength 42 MPa; yield elongation 8 percent; ultimate strength 53 MPa; ultimate elongation 300 percent; Rockwell hardness of 108); polypropylene coating thickness of 0.60 mm to 1.3 mm;
- (cdix) coated welded single wall steel tubing of circular cross section, designated as A-641; the foregoing with tubing characteristics: outer diameter not greater than 12 mm, wall thickness not greater than 0.9 mm; having the following chemical composition (percent by weight): 0.15 maximum carbon, 0.60 maximum manganese, 0.05 maximum phosphorus and 0.05 maximum sulfur; tubes coated with the following materials, in order from the innermost material: zinc plating minimum 13 micrometer thickness, primer coating of approximately 10 micrometer thickness, Polyamide 11 coating thickness of 10 micrometer to 200 micrometer; mechanical properties of Polyamide 11 (nylon coating): specific gravity of 1.03 at 23 °C, melt point 183 to 187 °C; yield strength 42 MPa; yield elongation 8 percent; ultimate strength 53 MPa; ultimate elongation 300 percent; Rockwell hardness of 108;
- (cdx) nonalloy steel pipe, designated as A-698; the foregoing with outside diameter 49 mm or more but not over 195 mm; wall thickness 0.64 mm or more but not over 1.1 mm; pressure rating of 12 bar or more but not over 25 bar; with components of ball-and socket fittings of non-alloy steel welded to each end (the ball on one end of the pipe and the socket on the opposite end) such that one pipe is capable of being attached to another of the same diameter by means of the ball-and-socket connection and secured by a lever closure; the entire outer surface of which has been galvanized;
- (cdxi) galvanized rectangular hollow sections, designated as A-751; the foregoing welded, complying with ASTM A500, but having a minimum yield strength of 450 MPa and galvanized, with a smooth in-line galvanized external zinc coating of 100 g/m<sup>2</sup> or more but not over 200 g/m<sup>2</sup> (0.60oz/ft<sup>2</sup>); galvanizing applied after welding with the zinc coating further

passivated to resist white rust; not further worked other than cold forming; not formed from pre-galvanized strip product; supplied with or without internal corrosion protection (barrier or zinc rich paint) applied to the inside of the section; size range of rectangles chemistry is controlled to provide a carbon equivalent of no more than 0.39 (calculated by the following formula:  $CE = C + (Mn/6) + ((Cr+Mo+V)/5) + ((Ni+Cu)/15)$ ); having the following chemical composition (percent by weight): 0.23 carbon, 1.35 manganese, 0.25 silicon, 0.10 aluminum, 0.035 phosphorus and 0.035 sulfur; produced from fully killed steel with fine grain; in wall thicknesses of 1.55 mm to 6.05 mm; in either of the following sections:

- (i) squares, 19.0 mm by 19.0 mm to 101.6 by 101.6 mm; or
  - (ii) rectangles, 38.0 by 25.0 mm to 152.4 by 50.0 mm;
- (cdxii) cold finished 316L vacuum melted stainless steel medical implant profiles, designated as A-750 and entered in an aggregate annual quantity not to exceed 25 t; conforming to ASTM F138; having the following chemical composition (percent by weight): carbon not over 0.030, chromium 17 to 19, molybdenum 2.25 to 3 and nickel 13 to 15; with tensile strength 850 MPa to 1,100 MPa; with surface cold-rolled, free from cracks, scratches and seams; in straight lengths from 2.90 to 3.20 meters; meeting one of the following sets of dimensions:
- (i) width 10.0 mm to 10.4 mm; thickness 3.0 mm to 3.4 mm; corner radius 0.4 mm to 0.6 mm on all four corners of the profile; profile cross-section having arc with a bend radius of 10 mm on the bottom, and having an arc with a bend radius of 13.2 mm on the top; the bottom and the top being concentric; bottom arc measuring from 50 to 55 degrees of convexity, resulting in a frontal view of an arc with parallel vertical sides;
  - (ii) width 10.0 mm to 10.4 mm; thickness 3.3 mm to 3.7 mm; corner radius 0.4 mm to 0.6 mm on all four corners of the profile; profile cross-section having arc with a bend radius of 10 mm on the bottom, and having an arc with a bend radius of 13.50 mm on the top; the bottom and the top being concentric; bottom arc measuring from 45 to 50 degrees of convexity, resulting in a frontal view of an arc with parallel vertical sides;
  - (iii) width 12.0 mm to 12.4 mm; thickness 3.8 mm to 4.2 mm; corner radius 0.7 mm to 1.3 mm on all four corners; profile cross-section having arc with bend radius of 25 mm on the bottom, and having an arc with bend radius of 29 mm on the top; the bottom and the top being concentric; bottom arc measuring from 37 to 42 degrees of convexity, resulting in a frontal view of an arc with parallel vertical sides;
  - (iv) width 16.0 mm to 16.4 mm; thickness 4.8 mm to 5.2 mm; corner radius 0.9 mm to 1.1 mm on all four corners; profile cross-section having arc with bend radius of 25 mm on the bottom, and having an arc with a bend radius of 30 mm on the top; the bottom and the top being concentric; bottom arc measuring at 35 to 40 degrees of convexity, resulting in a frontal view of an arc with parallel vertical sides;
  - (v) width 10.87 mm to 11.28 mm; thickness 3.12 mm to 3.53 mm; corner radius 1.4 mm to 1.48 mm on the bottom corners and corner radius 1.0 mm to 1.1 mm on the top corners; profile cross-section having arc with a bend radius of 9.97 mm on the bottom, and having an arc with a bend radius of 13.30 mm on the top; the bottom and the top being concentric; bottom arc measuring from 42 to 48 degrees of convexity, resulting in a frontal view of an arc with parallel vertical sides;
  - (vi) width 13.39 mm to 13.79 mm; thickness 4.06 mm to 4.47 mm; corner radius 1.80 mm to 1.84 mm on the bottom corners and 1.54 mm to 1.58 mm on the top corners; profile cross-section having arc with bend radius of 24.96 mm on the bottom, and having an arc with bend radius of 29.23 mm on the top; the bottom and the top being concentric; bottom arc measuring from 35 to 40 degrees of convexity, resulting in a frontal view of an arc with parallel vertical sides;
  - (vii) width 17.27 mm to 17.68 mm; thickness 5.08 mm to 5.49 mm; corner radius 2.30 mm to 2.35 mm on the bottom corners and corner radius 1.92 mm to 1.96 mm on the top corners; profile cross-section having arc with bend radius of 24.96 mm on the bottom, and having an arc with a bend radius of 30.24 mm on the top; the bottom and the top being concentric; bottom arc measuring from 43 to 48 degrees of convexity, resulting in a frontal view of an arc with parallel vertical sides;
  - (viii) width 8.9 mm to 9.3 mm; thickness 0.9 mm to 1.3 mm; corner radius of 0.5 mm to 0.6 mm on all four corners; profile cross-section having arc with bend radius of 5 mm on the bottom, and having an arc with a bend radius of 6.10 mm on the top; the bottom and the top being concentric; bottom arc measuring from 90 to 95 degrees of convexity, resulting in a frontal view of an irregular crescent; the left and right sides of the profile at a 44 to 46-degree angle from the perpendicular toward the center from the bottom;

- (ix) width 10.8 mm to 11.2 mm; thickness 3.1 mm to 3.5 mm; corner radius 1.40 mm to 1.80 mm on the bottom corners and 0.9 mm to 1.4 mm on the top corners; profile cross-section having arc with bend radius 10 mm on the bottom, and having an arc with a bend radius of 13.30 mm on the top; the bottom and the top being concentric; bottom arc measuring from 44 to 49 degrees of convexity, resulting in a frontal view of an irregular crescent; the left and right sides of the profile at 9 to 11 degrees from the perpendicular toward the center from the bottom;
- (x) width 13.3 mm to 13.7 mm; thickness 4.0 mm to 4.4 mm; corner radius 1.90 mm to 2.50 mm on the bottom corners and 0.9 mm to 1.4 mm on the top corners; profile cross-section having arc with bend radius of 25 mm on the bottom, and having an arc with a bend radius of 29.20 mm on the top; the bottom and the top being concentric; bottom arc measuring from 30 to 35 degrees of convexity, resulting in a frontal view of an irregular crescent; the left and right sides at 9 to 11 degrees from the perpendicular toward the center from the bottom;
- (xi) width 17.3 mm to 17.7 mm; thickness 5.0 mm to 5.4 mm; corner radius 1.9 mm to 2.60 mm on the bottom corners and 0.9 mm to 1.4 mm on the top corners; profile cross-section having arc with bend radius of 25 mm on the bottom, and having an arc with a bend radius of 30.20 mm on the top; the bottom and the top being concentric; bottom arc measuring from 25 to 30 degrees of convexity, resulting in a frontal view of an irregular crescent; the left and right sides of the profile at 9 to 11 degrees from the perpendicular toward the center from the bottom;
- (xii) width 10.0 mm to 10.4 mm; thickness 3.2 mm to 3.6 mm; corner radius 0.4 mm to 0.6 mm on all four corners; profile cross-section having arc with bend radius of 10 mm on the bottom, and having an arc with a bend radius of 13.40 mm on the top; the bottom and the top being concentric; bottom arc measuring from 48 to 53 degrees of convexity, resulting in a frontal view of an arc with parallel vertical sides;
- (xiii) width 11.8 mm to 12.2 mm; thickness 3.8 mm to 4.2 mm; corner radius 0.7 mm to 1.3 mm on all four corners; profile cross-section having arc with bend radius of 25 mm on the bottom, and having an arc with bend radius of 29 mm on the top; the bottom and the top being concentric; bottom arc measuring from 25 to 30 degrees of convexity, resulting in a frontal view of an arc with parallel vertical sides;
- (xiv) width 15.8 mm to 16.2 mm; thickness 6.4 mm to 6.8 mm; corner radius 1.0 mm to 1. mm on the bottom corners and 4.8 mm to 4.84 mm on the top corners; profile cross-section having arc with bend radius of 17.78 mm on the bottom; the bottom arc of the profile measuring from 35 to 40 degrees of convexity; the top of the profile having a flat surface and the left and right sides vertical and parallel;
- (xv) width 7.39 mm to 7.79 mm; thickness 3.61 mm to 4.01 mm; corner radius 0.27 mm to 0.33 mm on all four corners; with the top and bottom surfaces of the profile flat and the left and right sides vertical and parallel;
- (xvi) width 12.5 mm to 12.9 mm; thickness 2.6 mm to 3.0 mm; profile has sharp corners with no corner radius, resulting in a true rectangular shape; with both the top and bottom surfaces of the profile flat and the left and right sides vertical and parallel; or
- (xvii) width 16.3 mm to 16.7 mm; thickness 6.3 mm to 6.7 mm; corner radius of 1.40 mm to 1.80 mm on all four corners; with both the top and bottom surfaces of the profile flat and the left and right sides vertical and parallel;
- (cdxiii) hot-rolled stainless steel bars, designated as A-614, the foregoing with a mill rolled rounded edge and thickness not over 12 mm, width not over 180 mm and length not over 7 m; having the following chemical composition (in percent by weight), conforming to DIN 1.4021: carbon 0.18 to 0.22, silicon not over 1, manganese not over 1, phosphorus not over 0.045, sulfur not over 0.03, chromium 12 to 14, with or without other trace elements; tolerances for chemical composition and sizes conforming to ASTM A-484, latest revision;
- (cdxiv) hot-rolled stainless steel bars, designated as A-614, the foregoing with a mill rolled rounded edge and thickness not over 15 mm, width not over 250 mm and length not over 7 m; having the following chemical composition (in percent by weight), conforming to DIN 1.4116: carbon 0.42 to 0.48, silicon not over 1, manganese not over 1, phosphorus not over 0.045, sulfur not over 0.03, chromium 13.8 to 15, molybdenum 0.45 to 0.60, vanadium 0.10 to 0.15, with or without other trace elements; tolerances for chemical composition and sizes conforming to ASTM A-484, latest revision;
- (cdxv) hot-rolled stainless steel bars, designated as A-614, with a mill rolled rounded edge and thickness not over 12 mm, width not over 180 mm and length not over 7 m; having the following chemical composition (in percent by weight),

conforming to DIN 1.4117: carbon 0.35 to 0.40, silicon not over 1, manganese not over 1, phosphorus not over 0.045, sulfur not over 0.03, chromium 13 to 15, molybdenum 0.40 to 0.60, vanadium 0.10 to 0.15, with or without other trace elements; tolerances for chemical composition and sizes conforming to ASTM A-484, latest revision;

- (cdxvi) stainless steel reinforcing bars, designated as A-739 and entered in an aggregate annual quantity not to exceed 50 t; the foregoing whether or not in irregularly wound coils, in diameters of less than 12.7 mm, with uniform dimensions; tensile strength not less than 620 MPa; yield strength not less than 448 MPa; with elongation of not less than 9 percent minimum in 200 mm; meeting all specifications of ASTM A955 M-96; in grades AISI 304, AISI 304LN, AISI 316, AISI 316LN or AISI 2205;
- (cdxvii) cold-rolled AISI 316L vacuum melted stainless medical implant steel, designated as A-673 and entered in an aggregate annual quantity not to exceed 20 t; meeting the following characteristics: 20.4 mm to 20.6 mm in width with thickness of 15.4 mm to 15.6 mm or 20.35 mm to 20.65 mm in width with thickness of 17.85 mm to 18.15 mm; corner radius 0.1 mm to 0.9 mm; in straight lengths from 2.90 m to 3.20 m; with chemical composition according to ASTM F138; tensile strength from 931 MPa to 1,069 MPa; surface cold-rolled, free from cracks, scratches and seams; surface roughness 32 rms or better;
- (cdxviii) hot-rolled annealed and pickled stainless steel wire rods per AISI 660, designated as A-645 and entered in an aggregate annual quantity not to exceed 500 t, the foregoing with the following additional specifications: diameter 5.3 mm to 12.2 mm; air melted without remelting through a consumable electrode melting process; with tensile strength 700 MPa maximum; and with the following chemical composition (percent by weight): carbon not over 0.080, silicon not over 1.00, manganese not over 2.00, nickel 24.00 to 27.00, chromium 13.50 to 16.00, molybdenum 1.00 to 1.50, copper not over 0.50, titanium 1.90 to 2.35, sulfur not over 0.0300, phosphorus not over 0.040, aluminum not over 0.35, vanadium 0.10 to 0.50, lead not over 0.0050, boron 0.0010 to 0.0100 and bismuth not over 0.00002 (0.2 ppm);
- (cdxix) hot-rolled annealed, pickled, and coated stainless steel wire rods per AISI 305, designated as A-645 and entered in an aggregate annual quantity not to exceed 1,500 t, the foregoing with the following additional specifications: tensile strength 440.0 MPa to 590.0 MPa; diameter 5.3 mm to 15.7 mm; with the following chemical composition (percent by weight): carbon not over 0.025; silicon not over 1.00; manganese not over 2.00; nickel 10.50 to 13.00; chromium 17.00 to 19.00; sulfur not over 0.0300; and phosphorus not over 0.045; with a coating containing not less than 70 percent combined potassium sulfate and sodium sulfate;
- (cdxx) stainless steel wire rod, designated as A-725 and entered in an aggregate annual quantity not to exceed 180 t, hot-rolled, in irregularly wound coils, of circular cross-section, with a diameter of less than 19 mm; having the following chemical composition (percent by weight): carbon 0.96 to 0.98, silicon 0.30 to 0.50, manganese 0.30 to 0.50, phosphorus not over 0.025, sulfur not over 0.025, nickel not over 0.60, chromium 16.0 to 18.0, molybdenum 0.40 to 0.65, copper not over 0.50 and vanadium not over 0.08; hardness less than 95 HRB; primary carbide controlled to less than 20 micrometer; micro inclusion rating shall not exceed the following rating value defined by ASTM E45 Method A: Type A-Thin not over 2.0, Type A-Heavy not over 1.5, Type B-Thin not over 2.0, Type B-Heavy not over 1.5, Type C-Thin not over 1.0, Type C-Heavy not over 1.0, Type D-Thin not over 2.0, and Type D-Heavy not over 1.0; depth of decarburization not exceeding the following: for sample rod of diameter of not over 10 mm, then not over 0.1 mm; for sample rod over 10 mm in diameter, then not over 1 percent of diameter;
- (cdxxi) cut-to-length flat-rolled products, designated as A-645; the foregoing per ASTM A387 Grade 91; with the following additional characteristics: thickness 4.76 mm to 12.6 mm and 101.7 mm to 250 mm; width 3.5 m to 4.5 m; length 3.0 m to 12.5 m; with KCV Charpy impact property guarantee of 27 J minimum at -29 °C; with the following additional chemical property guarantees, expressed as percentages by weight: carbon not over 0.10 and phosphorus not 0.015;
- (cdxxii) flat-rolled products of other alloy steel, designated as A-677; the foregoing not further worked than hot-rolled; not in coils; specification: thermomechanically rolled, ASTM A 656 Grade 80 Type 7 plate, modified as described below by increasing the maximum carbon content and the minimum tensile strength; physical properties: width 600 mm or more; thickness: 12.45 mm to 13.08 mm; flatness: product to be controlled to one-third commercial flatness as specified under ASTM-A6; having the following chemical composition (percent by weight): carbon content not over 0.22; mechanical properties: tensile strength minimum ultimate tensile strength 690 MPa; maximum ultimate tensile strength 793 MPa; bend radius capable of taking a 90 degree bend with a radius 0.5 times the thickness of the plate (0.5 T) without any cracking as performed on a 88.9 mm vee opening lower die with a 3.18 mm radius upper die, the bend to be made perpendicular to the grain of the plate.
- (cdxxiii) abrasion resistant, quenched and tempered flat-rolled products of alloy steel, designated as A-679 and entered in an aggregate annual quantity not exceed 180 t; the foregoing not further worked than hot-rolled, not in coils; physical dimensions: thickness 6 mm or more; width 600 mm or more; having the following chemical composition (percent by

- weight): carbon not over 0.30, silicon not over 0.50, manganese not over 1.80, phosphorus not over 0.025, sulfur not over 0.001 and containing one or more of the following alloying elements: molybdenum not over 0.50, nickel not over 0.80, chromium not over 1.50, vanadium not over 0.08, niobium not over 0.05 and boron 0.001 to 0.005; mechanical properties: minimum Brinell hardness of 400 BHN; flatness of maximum deviation 1/2 of the values required by ASTM A6; fine-grained to austenitic grain size 6 or finer; water quenched after austenitization, followed by tempering, to achieve the specified hardness; vacuum degassed and desulfurized to maximum 0.001 percent to achieve the following standard of cleanliness: no inclusions greater than 1 mm in diameter on six polished test samples and not more than 3 inclusions greater than 1 mm in diameter per m<sup>2</sup> of the ground, finished surface; free from surface defects deeper than 0.3 mm or free from surface defects deeper than 0.5 mm if the affected area is not more than 5 percent of the total surface area;
- (cdxxiv) flat-rolled products of other alloy steel, designated as A-686 and entered in an aggregate annual quantity not to exceed 1,000 t; not further worked than hot-rolled, not in coils; abrasion-resistant, heat-resistant steel; air quenched to produce the mechanical properties set out below; physical properties: width 600 mm or more; thickness 4.75 mm to 25 mm; having the following chemical composition (percent by weight): carbon 0.16 to 0.19, silicon 0.30 to 0.50, manganese 1.30 to 1.50, phosphorus not over 0.015, sulfur not over 0.005, chromium 0.90 to 1.45, nickel 0.50 to 0.90 and molybdenum 0.15 to 0.60; mechanical properties: hardness of minimum Brinell hardness 340 HB for thickness less than 20 mm and 320 HB for thickness greater than or equal to 20 mm; ductility: capable of being cold-formed without cracking to a 90-degree bend with a radius five times the thickness of the plate longitudinal to the rolling direction; capable of being cold-formed without cracking to a 90-degree bend with a radius four times the thickness of the product transverse to the rolling direction; capable of being cold rolled without cracking to a 360-degree bend with an inside diameter 30 times the thickness of the product; heat-resistance: retains its abrasion resistance at temperatures up to 500 °C due to hard chromium and molybdenum microcarbides;
- (cdxxv) flat-rolled alloy steel structural products, the foregoing designated as A-697 and entered in an aggregate annual quantity not exceed 500 t; 4.0 mm to 16.0 mm in thickness; not over 3,350 mm in width; having the following chemical composition (expressed as percent by weight): carbon 0.145 to 0.194, silicon 0.15 to 0.30, manganese 1.15 to 1.35, phosphorus not over 0.02, sulfur not over 0.003, chromium 0.10 to 0.30, nickel not over 0.10, molybdenum not over 0.70, vanadium not over 0.055, titanium not over 0.01, copper not over 0.10, aluminum 0.045 to 0.080, niobium not over 0.020, boron 0.0007 to 0.0020 and nitrogen not over 0.0084; quenched and tempered; with a minimum yield strength of 960 N/mm<sup>2</sup>; grain refined; surface treated with a low zinc silicate primer of maximum 12 micrometers; formatted with a square edge; free of scale; guaranteed to a thickness tolerance of one-third of ASTM standards; and guaranteed to a flatness tolerance of 3 mm per mm or better;
- (cdxxvi) flat-rolled products of alloy steel, designated as A-729 and entered in an aggregate annual quantity not to exceed 525 t; the foregoing not further worked than hot-rolled; not in coils; of AISI 4142 of plastic mold quality, modified by decreasing phosphorus and sulfur content and increasing manganese content to produce a smoother surface with fewer inclusions; physical properties: width 1050 mm or more; thickness 4.75 mm or more; flatness less than or equal to 3 mm per mm; surface quality in accordance with EN 10 163, Class A; having the following chemical composition (percent by weight): carbon from 0.38 to 0.46, silicon from 0.15 to 0.40, manganese from 0.70 to 1.70, sulfur not over 0.002, chromium from 0.75 to 1.25, molybdenum from 0.15 to 0.30 and vanadium from 0.05 to 0.10; mechanical properties: prehardened (air hardened and tempered) to achieve Brinell hardness of 260 to 310 HB; tensile strength 880 MPa to 1,050 MPa; cleanliness of 2 or better in accordance with ASTM E45-A, including desulfurization to maximum 0.002 percent for high sulfidic cleanliness; vacuum degassing; argon stirring for oxide and sulfide cleanliness; special casting conditions to ensure high oxide cleanliness; ultrasonic testing performed on each plate in accordance with ASTM A 578, supplementary requirements S1 and S9; calcium treatment for inclusion shape control; modified by heat treatment and implementation of a rolling technique applying a rolling force of 11,000 t for high thickness reduction achieving a closely packed structure otherwise achieved only by forging (High Shape Factor Rolling) and resulting in low residual stress and homogeneous hardness distribution;
- (cdxxvii) flat-rolled electrolytic tin plate according to ASTM 624-98, designated as A-672 and entered in an aggregate annual quantity not to exceed 3,000 t, the foregoing single reduced with tin coating weight designation #10; with an unmelted coating; with a surface finish between 254 and 635 micrometers; with a chemical treatment yielding to 8,890 to 16,510 micrometers of chromium per 0.3048 square meter of surface; with DOS or ATBC oil applied at a level of 0.10 to 0.30 grams per 66.45 mm<sup>2</sup>; with a thickness of 0.167 mm to 0.194 mm; with a steel Type of "MR", a Temper Designation of "T-5" per ASTM A623 with a Non-Reflow Matte Finish Designation of 5C;
- (cdxxviii) continuous annealed interstitial free tin plated steel, designated as A-715 and entered in an aggregate annual quantity not to exceed 2,000 t; the foregoing of thickness 0.2290 mm to 0.2950 mm; width 949.71 mm to 959.94 mm; hardness of HR 27T to HR 33T; yield strength 19.0 kg/mm<sup>2</sup> to 29.0 kg/mm<sup>2</sup>, tensile strength of 30.0 kg/mm<sup>2</sup> to 40.0 kg/mm<sup>2</sup>; having the following chemical composition per ASTM A623, type MR (percent by weight): carbon 0.00225 to 0.00375,

silicon not over 0.02, manganese 0.21 to 0.29, phosphorus not over 0.017, sulfur not over 0.015 LM, chromium not over 0.06 and nickel not over 0.03; with the following other properties: interstitial free vacuum degassed steel; 7C bright finish, coating weight 2.8/2.8 g/m<sup>2</sup> per ASTM A624; surface to be free of defects, imperfections, pits, scratches, rust, cracks, or seams; smooth edges; edge camber maximum 3 mm arc height in 1000 mm; and cross bow of not over 3.00 mm per length or width of 1000 mm; certified by the importer that such products will be slit into two coils of equal widths, each coil having a width of 471.678 mm to 472.033 mm for use in manufacturing of paint trays;

- (cdxxix) longitudinally welded tubes of cold-rolled steel, designated as A-623 and entered in an aggregate annual quantity not to exceed 350 t; with the following specifications: outside diameter of 21.87 mm to 22.13 mm; wall thickness of 0.84 mm to 0.92 mm; in any of the following six lengths: (1) 936 mm to 937 mm; (2) 1,033 mm to 1,034 mm; (3) 1,150 mm to 1,151 mm; (4) 3,929 mm to 3,930 mm; (5) 3,950 mm to 3,951 mm; and (6) 4,205 mm to 4,206 mm; coated on outside diameter only, in two-step process: first, a zinc coating of 6 to 10 mg/m<sup>2</sup>, thickness of 8 to 15 microns; and second, a fine uniform layer of corrosion-resistant varnish, thickness of 1 to 3 microns; having the following chemical composition (percent by weight): carbon 0.045 to 0.094, manganese 0.30 to 0.554, sulfur not over 0.20, phosphorus not over 0.20, silicon not over 0.30, aluminum 0.25 to 0.74 and niobium 0.015 to 0.030; carbon equivalent content of 0.120 to 0.185; or
- (cdxxx) longitudinally welded tubes of cold-rolled steel, designated as A-623 and entered in an aggregate annual quantity not to exceed 400 t; with the following specifications: length 4,205 mm to 4,206 mm; outside diameter 21.87 mm to 22.13 mm, diameter reduced at one end to 19.2 mm to 19.5 mm, reduction beginning at a maximum of 60 mm from end; wall thickness of 0.84 mm to 0.92 mm; coated on outside diameter only, in two-step process: first, a zinc coating of 6 to 10 mg/m<sup>2</sup>, thickness of 8 to 15 microns; second, a fine uniform layer of corrosion-resistant varnish, thickness of 1 to 3 microns; having the following chemical composition (percent by weight): carbon 0.045 to 0.094, manganese 0.30 to 0.554, sulfur not over 0.20, phosphorus not over 0.20, silicon not over 0.30, aluminum 0.25 to 0.74 and niobium 0.015 to 0.030; carbon equivalent content of 0.120 to 0.185."

2. The following new subheadings are inserted in numerical sequence in subchapter III of chapter 99 of the HTS, with the new material being inserted in the columns entitled "Heading/Subheading", "Article Description", "Rate of Duty 1 General", "Rates of Duty 1 Special" and "Rates of Duty 2", respectively:

	: [Goods...]	:	:	:
"9903.75.60	: Enumerated in U.S. note 11(c)(ccxiii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
	:	:	:	:
9903.75.62	: Enumerated in U.S. note 11(c)(ccxv) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 15,000 t . . . . .	: No change	: No change	: No change
	:	:	:	:
9903.75.63	: Enumerated in U.S. note 11(c)(ccxvi) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 3 t . . . . .	: No change	: No change	: No change
	:	:	:	:
9903.75.64	: Enumerated in U.S. note 11(c)(ccxvii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 8,000 t . . . . .	: No change	: No change	: No change
	:	:	:	:
9903.75.65	: Enumerated in U.S. note 11(c)(ccxviii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 5,000 t . . . . .	: No change	: No change	: No change
	:	:	:	:
9903.75.66	: Enumerated in U.S. note 11(c)(ccxix) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 4,000 t . . . . .	: No change	: No change	: No change
	:	:	:	:

	: [Goods....]	:	:	:
9903.75.67	: Enumerated in U.S. note 11(c)(ccxx) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 120 t . . . . .	: No change	: No change	: No change
9903.75.68	: Enumerated in U.S. note 11(c)(ccxxi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.75.69	: Enumerated in U.S. note 11(c)(ccxxii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.75.70	: Enumerated in U.S. note 11(c)(ccxxiii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.75.71	: Enumerated in U.S. note 11(c)(ccxxiv) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.75.72	: Enumerated in U.S. note 11(c)(ccxxv) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.75.73	: Enumerated in U.S. note 11(c)(ccxxvi) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 3,600 t . . . . .	: No change	: No change	: No change
9903.75.74	: Enumerated in U.S. note 11(c)(ccxxvii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 930 t . . . . .	: No change	: No change	: No change
9903.75.75	: Enumerated in U.S. note 11(c)(ccxxviii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 100 t . . . . .	: No change	: No change	: No change
9903.75.76	: Enumerated in U.S. note 11(c)(ccxxix) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.75.77	: Enumerated in U.S. note 11(c)(ccxxx) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.75.78	: Enumerated in U.S. note 11(c)(ccxxxi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.75.79	: Enumerated in U.S. note 11(c)(ccxxxii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.75.80	: Enumerated in U.S. note 11(c)(ccxxxiii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.75.81	: Enumerated in U.S. note 11(c)(ccxxxiv) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.75.82	: Enumerated in U.S. note 11(c)(ccxxxv) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.75.83	: Enumerated in U.S. note 11(c)(ccxxxvi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.75.84	: Enumerated in U.S. note 11(c)(ccxxxvii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change

	: [Goods....]	:	:	:
9903.75.85	: Enumerated in U.S. note 11(c)(ccxxviii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.75.86	: Enumerated in U.S. note 11(c)(ccxxxix) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.75.87	: Enumerated in U.S. note 11(c)(ccxli) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.75.88	: Enumerated in U.S. note 11(c)(ccxlii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.75.89	: Enumerated in U.S. note 11(c)(ccxliii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.75.90	: Enumerated in U.S. note 11(c)(ccxliv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.75.91	: Enumerated in U.S. note 11(c)(ccxlv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.75.92	: Enumerated in U.S. note 11(c)(ccxlvi) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.75.93	: Enumerated in U.S. note 11(c)(ccxlvii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.75.94	: Enumerated in U.S. note 11(c)(ccxlviii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.75.95	: Enumerated in U.S. note 11(c)(ccxlix) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.75.96	: Enumerated in U.S. note 11(c)(cccl) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.75.97	: Enumerated in U.S. note 11(c)(ccclxxvii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.76.24	: Enumerated in U.S. note 11(c)(ccclxxviii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.76.25	: Enumerated in U.S. note 11(c)(ccc) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.76.38	: Enumerated in U.S. note 11(c)(cdxxvii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 3,000 t .....	: No change	: No change	: No change
9903.76.40	: Enumerated in U.S. note 11(c)(cdxxviii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 2,000 t .....	: No change	: No change	: No change
9903.76.81	: Enumerated in U.S. note 11(c)(ccci) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change



	: [Goods....]	:	:	:
9903.76.82	: Enumerated in U.S. note 11(c)(cccii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.76.83	: Enumerated in U.S. note 11(c)(ccciii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.76.84	: Enumerated in U.S. note 11(c)(ccciv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.76.85	: Enumerated in U.S. note 11(c)(cccv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.03	: Enumerated in U.S. note 11(c)(cccix) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.04	: Enumerated in U.S. note 11(c)(cccl) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.05	: Enumerated in U.S. note 11(c)(cccli) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.06	: Enumerated in U.S. note 11(c)(ccclii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.07	: Enumerated in U.S. note 11(c)(cccliii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.08	: Enumerated in U.S. note 11(c)(cccliv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.09	: Enumerated in U.S. note 11(c)(ccclv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.10	: Enumerated in U.S. note 11(c)(ccclvi) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.11	: Enumerated in U.S. note 11(c)(ccclvii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.12	: Enumerated in U.S. note 11(c)(ccclviii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.13	: Enumerated in U.S. note 11(c)(ccclix) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.14	: Enumerated in U.S. note 11(c)(ccclx) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.15	: Enumerated in U.S. note 11(c)(ccclxi) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.16	: Enumerated in U.S. note 11(c)(ccclxii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.17	: Enumerated in U.S. note 11(c)(ccclxiii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change

	: [Goods...]	:	:	:
9903.77.18	: Enumerated in U.S. note 11(c)(ccclxiv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.19	: Enumerated in U.S. note 11(c)(ccclxv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.20	: Enumerated in U.S. note 11(c)(ccclxvi) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.21	: Enumerated in U.S. note 11(c)(ccclxvii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.22	: Enumerated in U.S. note 11(c)(ccclxviii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.23	: Enumerated in U.S. note 11(c)(ccclxix) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.24	: Enumerated in U.S. note 11(c)(ccclxx) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.25	: Enumerated in U.S. note 11(c)(ccclxxi) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.26	: Enumerated in U.S. note 11(c)(ccclxxii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.27	: Enumerated in U.S. note 11(c)(ccclxxiii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.28	: Enumerated in U.S. note 11(c)(ccclxxiv) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 5,000 t .....	: No change	: No change	: No change
9903.77.29	: Enumerated in U.S. note 11(c)(ccclxxv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.51	: Enumerated in U.S. note 11(c)(cdii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.79	: Enumerated in U.S. note 11(c)(cccxciii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.80	: Enumerated in U.S. note 11(c)(cccxciv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.81	: Enumerated in U.S. note 11(c)(cccxcv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.82	: Enumerated in U.S. note 11(c)(cccxcvi) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.83	: Enumerated in U.S. note 11(c)(cccxcvii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.77.84	: Enumerated in U.S. note 11(c)(cccxcviii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change

	: [Goods....]	:	:	:
9903.77.87	: Enumerated in U.S. note 11(c)(cdxviii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 500 t . . . . .	: No change	: No change	: No change
9903.77.88	: Enumerated in U.S. note 11(c)(cdxix) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 1,500 t . . . . .	: No change	: No change	: No change
9903.77.89	: Enumerated in U.S. note 11(c)(cdxx) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 180 t . . . . .	: No change	: No change	: No change
9903.78.16	: Enumerated in U.S. note 11(c)(cdi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.78.25	: Enumerated in U.S. note 11(c)(ccli) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.78.26	: Enumerated in U.S. note 11(c)(cclii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.78.27	: Enumerated in U.S. note 11(c)(cdxxi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.78.28	: Enumerated in U.S. note 11(c)(cdxxii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.78.29	: Enumerated in U.S. note 11(c)(cdxxiii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 180 t . . . . .	: No change	: No change	: No change
9903.78.30	: Enumerated in U.S. note 11(c)(cdxxiv) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 1,000 t . . . . .	: No change	: No change	: No change
9903.78.31	: Enumerated in U.S. note 11(c)(cdxxv) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 500 t . . . . .	: No change	: No change	: No change
9903.78.32	: Enumerated in U.S. note 11(c)(cdxxvi) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 525 t . . . . .	: No change	: No change	: No change
9903.78.40	: Enumerated in U.S. note 11(c)(ccliii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.78.41	: Enumerated in U.S. note 11(c)(celiv) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.78.42	: Enumerated in U.S. note 11(c)(celv) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.78.43	: Enumerated in U.S. note 11(c)(celvi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.78.44	: Enumerated in U.S. note 11(c)(celvii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change

	: [Goods....]	:	:	:
9903.78.45	: Enumerated in U.S. note 11(c)(cclviii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.78.46	: Enumerated in U.S. note 11(c)(cclix) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.78.47	: Enumerated in U.S. note 11(c)(cclx) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.78.48	: Enumerated in U.S. note 11(c)(cclxi) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 8,500 t .....	: No change	: No change	: No change
9903.78.49	: Enumerated in U.S. note 11(c)(cclxii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 250 t .....	: No change	: No change	: No change
9903.78.50	: Enumerated in U.S. note 11(c)(cclxiii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 250 t .....	: No change	: No change	: No change
9903.78.51	: Enumerated in U.S. note 11(c)(cclxiv) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 250 t .....	: No change	: No change	: No change
9903.78.52	: Enumerated in U.S. note 11(c)(cclxv) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 5,000 t .....	: No change	: No change	: No change
9903.78.53	: Enumerated in U.S. note 11(c)(cclxvi) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 10,000 t .....	: No change	: No change	: No change
9903.78.54	: Enumerated in U.S. note 11(c)(cclxvii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 8,000 t .....	: No change	: No change	: No change
9903.78.55	: Enumerated in U.S. note 11(c)(cclxviii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 1,000 t .....	: No change	: No change	: No change
9903.78.56	: Enumerated in U.S. note 11(c)(cclxix) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 1,000 t .....	: No change	: No change	: No change
9903.78.57	: Enumerated in U.S. note 11(c)(cclxx) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.78.58	: Enumerated in U.S. note 11(c)(cclxxi) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.78.59	: Enumerated in U.S. note 11(c)(cclxxii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 14,500 t .....	: No change	: No change	: No change
9903.78.60	: Enumerated in U.S. note 11(c)(cclxxiii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change

	: [Goods....]	:	:	:
9903.78.61	: Enumerated in U.S. note 11(c)(cclxxiv) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 35,000 t .....	: No change	: No change	: No change
9903.78.62	: Enumerated in U.S. note 11(c)(cclxxv) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 500 t .....	: No change	: No change	: No change
9903.78.63	: Enumerated in U.S. note 11(c)(cclxxvi) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.79.60	: Enumerated in U.S. note 11(c)(cclxxix) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.79.61	: Enumerated in U.S. note 11(c)(cclxxx) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.79.62	: Enumerated in U.S. note 11(c)(cclxxxii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.79.63	: Enumerated in U.S. note 11(c)(cclxxxiii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.79.64	: Enumerated in U.S. note 11(c)(cclxxxiv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.79.65	: Enumerated in U.S. note 11(c)(cclxxxv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.79.66	: Enumerated in U.S. note 11(c)(cclxxxvi) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.79.67	: Enumerated in U.S. note 11(c)(cclxxxvii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.79.68	: Enumerated in U.S. note 11(c)(cclxxxviii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.79.69	: Enumerated in U.S. note 11(c)(cclxxxix) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.79.70	: Enumerated in U.S. note 11(c)(ccxc) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.79.71	: Enumerated in U.S. note 11(c)(ccxci) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 80,000 t .....	: No change	: No change	: No change
9903.79.72	: Enumerated in U.S. note 11(c)(ccxcii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 2,700 t .....	: No change	: No change	: No change
9903.79.73	: Enumerated in U.S. note 11(c)(ccxciii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 4,250 t .....	: No change	: No change	: No change

	: [Goods...]	:	:	:
9903.79.75	: Enumerated in U.S. note 11(c)(ccxciv) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 500 t . . . . .	: No change	: No change	: No change
9903.79.76	: Enumerated in U.S. note 11(c)(ccxcv) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 3,000 t . . . . .	: No change	: No change	: No change
9903.79.77	: Enumerated in U.S. note 11(c)(ccxcvi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.79.78	: Enumerated in U.S. note 11(c)(ccxcvii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 2,260 t . . . . .	: No change	: No change	: No change
9903.79.79	: Enumerated in U.S. note 11(c)(ccxcviii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.79.80	: Enumerated in U.S. note 11(c)(ccxcix) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.40	: Enumerated in U.S. note 11(c)(cccvi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.41	: Enumerated in U.S. note 11(c)(cccvi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.42	: Enumerated in U.S. note 11(c)(cccvi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.43	: Enumerated in U.S. note 11(c)(cccix) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.44	: Enumerated in U.S. note 11(c)(cccix) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.45	: Enumerated in U.S. note 11(c)(cccxi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.46	: Enumerated in U.S. note 11(c)(cccxi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.47	: Enumerated in U.S. note 11(c)(cccxi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.48	: Enumerated in U.S. note 11(c)(cccxi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.49	: Enumerated in U.S. note 11(c)(cccxi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.50	: Enumerated in U.S. note 11(c)(cccxi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.51	: Enumerated in U.S. note 11(c)(cccxi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change

	: [Goods....]	:	:	:
9903.80.52	: Enumerated in U.S. note 11(c)(cccxxiii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.53	: Enumerated in U.S. note 11(c)(cccix) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.54	: Enumerated in U.S. note 11(c)(cccxx) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.55	: Enumerated in U.S. note 11(c)(cccxi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.56	: Enumerated in U.S. note 11(c)(cccxxii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.57	: Enumerated in U.S. note 11(c)(cccxxiii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.58	: Enumerated in U.S. note 11(c)(cccxxiv) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.59	: Enumerated in U.S. note 11(c)(cccxxv) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.60	: Enumerated in U.S. note 11(c)(cccxxvi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.61	: Enumerated in U.S. note 11(c)(cccxxvii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.62	: Enumerated in U.S. note 11(c)(cccxxviii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.63	: Enumerated in U.S. note 11(c)(cccxxix) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.64	: Enumerated in U.S. note 11(c)(cccxxx) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 200 t . . . . .	: No change	: No change	: No change
9903.80.65	: Enumerated in U.S. note 11(c)(cccxxxi) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 50 t . . . . .	: No change	: No change	: No change
9903.80.66	: Enumerated in U.S. note 11(c)(cccxxxii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 80 t . . . . .	: No change	: No change	: No change
9903.80.67	: Enumerated in U.S. note 11(c)(cccxxxiii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 100 t . . . . .	: No change	: No change	: No change
9903.80.68	: Enumerated in U.S. note 11(c)(cccxxxiv) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 9 t . . . . .	: No change	: No change	: No change
9903.80.69	: Enumerated in U.S. note 11(c)(cccxxxv) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 5 t . . . . .	: No change	: No change	: No change

	: [Goods....]	:	:	:
9903.80.70	: Enumerated in U.S. note 11(c)(cccxvvi) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 200 t . . . . .	: No change	: No change	: No change
9903.80.71	: Enumerated in U.S. note 11(c)(cccxvii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.72	: Enumerated in U.S. note 11(c)(cccxviii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 325 t . . . . .	: No change	: No change	: No change
9903.80.73	: Enumerated in U.S. note 11(c)(cccxix) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.74	: Enumerated in U.S. note 11(c)(cccxli) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.75	: Enumerated in U.S. note 11(c)(cccxlii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.76	: Enumerated in U.S. note 11(c)(cccxliii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.77	: Enumerated in U.S. note 11(c)(cccxliiii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.78	: Enumerated in U.S. note 11(c)(cccxliv) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.79	: Enumerated in U.S. note 11(c)(cccxlv) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.80	: Enumerated in U.S. note 11(c)(cccxlvi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.81	: Enumerated in U.S. note 11(c)(cccxlvii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.82	: Enumerated in U.S. note 11(c)(cccxlviii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 325 t . . . . .	: No change	: No change	: No change
9903.80.83	: Enumerated in U.S. note 11(c)(cccli) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.80.84	: Enumerated in U.S. note 11(c)(ccclii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.81.00	: Enumerated in U.S. note 11(c)(ccclxxvi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.81.01	: Enumerated in U.S. note 11(c)(ccclxxvii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.81.02	: Enumerated in U.S. note 11(c)(ccclxxviii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.81.03	: Enumerated in U.S. note 11(c)(ccclxxix) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change



	: [Goods...]	:	:	:
9903.81.04	: Enumerated in U.S. note 11(c)(ccclxxx) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: not to exceed 550 t . . . . .	: No change	: No change	: No change
9903.81.05	: Enumerated in U.S. note 11(c)(ccclxxxi) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.81.06	: Enumerated in U.S. note 11(c)(ccclxxxii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.81.07	: Enumerated in U.S. note 11(c)(ccclxxxiii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.81.08	: Enumerated in U.S. note 11(c)(ccclxxxiv) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.81.09	: Enumerated in U.S. note 11(c)(ccclxxxv) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.81.10	: Enumerated in U.S. note 11(c)(ccclxxxvi) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 13,000 t . . . . .	: No change	: No change	: No change
9903.81.11	: Enumerated in U.S. note 11(c)(ccclxxxvii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 1,700 t . . . . .	: No change	: No change	: No change
9903.81.12	: Enumerated in U.S. note 11(c)(ccclxxxviii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 300 t . . . . .	: No change	: No change	: No change
9903.81.13	: Enumerated in U.S. note 11(c)(ccxiv) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.81.70	: Enumerated in U.S. note 11(c)(ccclxxxix) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.81.71	: Enumerated in U.S. note 11(c)(cccxc) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.81.72	: Enumerated in U.S. note 11(c)(cccxc) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.81.73	: Enumerated in U.S. note 11(c)(cccxcii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.82.10	: Enumerated in U.S. note 11(c)(cccxcix) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.82.11	: Enumerated in U.S. note 11(c)(cd) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change
9903.82.12	: Enumerated in U.S. note 11(c)(cdxii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 25 t . . . . .	: No change	: No change	: No change
9903.82.13	: Enumerated in U.S. note 11(c)(cdxiii) to this	:	:	:
	: subchapter . . . . .	: No change	: No change	: No change

	: [Goods....]	:	:	:
9903.82.14	: Enumerated in U.S. note 11(c)(cdxiv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.82.15	: Enumerated in U.S. note 11(c)(cdxv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.82.16	: Enumerated in U.S. note 11(c)(cdxvi) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 50 t .....	: No change	: No change	: No change
9903.82.17	: Enumerated in U.S. note 11(c)(cdxvii) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 20 t .....	: No change	: No change	: No change
9903.82.90	: Enumerated in U.S. note 11(c)(cdiii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.82.91	: Enumerated in U.S. note 11(c)(cdiv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.82.92	: Enumerated in U.S. note 11(c)(cdv) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.82.93	: Enumerated in U.S. note 11(c)(cdvi) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.82.94	: Enumerated in U.S. note 11(c)(cdvii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.82.95	: Enumerated in U.S. note 11(c)(cdviii) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.82.96	: Enumerated in U.S. note 11(c)(cdix) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.82.97	: Enumerated in U.S. note 11(c)(cdx) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.82.98	: Enumerated in U.S. note 11(c)(cdxi) to this	:	:	:
	: subchapter .....	: No change	: No change	: No change
9903.82.99	: Enumerated in U.S. note 11(c)(cdxxix) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 350 t .....	: No change	: No change	: No change
9903.83.00	: Enumerated in U.S. note 11(c)(cdxxx) to this	:	:	:
	: subchapter, and entered in an aggregate annual	:	:	:
	: quantity not to exceed 400 t .....	: No change	: No change	: No change"

## CONFORMING CHANGES:

Subheading 9903.72.57 is modified by inserting at the end of the article description "and 9903.78.25 through 9903.78.32";

Subheading 9903.72.78 is modified by inserting at the end of the article description "and 9903.78.40 through 9903.78.63";

Subheading 9903.73.01 is modified by deleting "9903.75.59" and by inserting in lieu thereof "9903.75.97";

Subheading 9903.73.18 is modified by deleting "9903.76.23" and by inserting in lieu thereof "9903.76.25", and by inserting at the end of the article description "and 9903.79.60 through 9903.79.80";

Subheading 9903.73.35 is modified by deleting "9903.76.37" and by inserting in lieu thereof "9903.76.40";

Subheading 9903.73.48 is modified by deleting "9903.76.80" and by inserting in lieu thereof "9903.76.85", and by inserting at the end of the article description "and 9903.80.40 through 9903.80.84";

Subheading 9903.73.55 is modified by deleting "9903.77.02" and by inserting in lieu thereof "9903.77.29", and by inserting at the end of the article description "and 9903.81.00 through 9903.81.13";

Subheading 9903.73.65 is modified by inserting at the end of the article description “, as described in subheadings 9903.81.70 through 9903.81.73”;

Subheading 9903.73.82 is modified by inserting at the end of the article description “and subheadings 9903.82.90 through 9903.83.00”;

Subheading 9903.73.88 is modified by deleting “subheading 9903.77.50” and by inserting in lieu thereof “subheadings 9903.77.50 through 9903.77.51”;

Subheading 9903.74.01 is modified by inserting at the end of the article description “and 9903.82.10 through 9903.82.17”;

Subheading 9903.74.12 is modified by deleting “9903.77.86” and by inserting in lieu thereof “9903.77.89”; and

Subheading 9903.74.18 is modified by deleting “9903.78.15” and by inserting in lieu thereof “9903.78.16”.

[FR Doc. 03-7782 Filed 3-27-03; 1:13 pm]

BILLING CODE 3190-01-C

## DEPARTMENT OF TRANSPORTATION

### Office of the Secretary

#### Aviation Proceedings, Agreements Filed the Week Ending March 21, 2003

The following Agreements were filed with the Department of Transportation under the provisions of 49 U.S.C. 412 and 414. Answers may be filed within 21 days after the filing of the application.

*Docket Number:* OST-2003-14710.

*Date Filed:* March 17, 2003.

*Parties:* Members of the International Air Transport Association.

*Subject:*

PTC2 AFR 0135 dated March 14, 2003,

Mail Vote 272—Resolution 010a, TC2 Within Africa Special Passenger Amending Resolution,

Intended effective date: April 15, 2003.

*Docket Number:* OST-2003-14712.

*Date Filed:* March 17, 2003.

*Parties:* Members of the International Air Transport Association.

*Subject:*

PTC2 ME-AFR 0101 dated March 18, 2003,

Mail Vote 274—Resolution 002cc, TC2 Middle East-Africa Special Passenger Amending Resolution, Intended effective date: April 15, 2003.

*Docket Number:* OST-2003-14719.

*Date Filed:* March 19, 2003.

*Parties:* Members of the International Air Transport Association.

*Subject:*

PTC12 SATL-EUR 0105 dated February 11, 2003,

TC12 South Atlantic-Europe Resolutions r1-r12, Minutes—PTC12 SATL-EUR 0106 dated March 4, 2003, Tables—PTC12 SATL-EUR Fares

0028 dated February 14, 2003,

Intended effective date: April 1, 2003.

*Docket Number:* OST-2003-14720.

*Date Filed:* March 19, 2003.

*Parties:* Members of the International Air Transport Association.

*Subject:*

PTC2 EUR 0500 dated March 21, 2003,

Mail Vote 281—Resolution 010u, TC2 Within Europe Special Passenger Amending Resolution from Austria to Europe,

PTC2 EUR 0501 dated March 21, 2003,

Mail Vote 283—Resolution 010w, TC2 Within Europe Special Passenger Amending Resolution from UK to Europe,

PTC2 EUR 0502 dated March 21, 2003,

Mail Vote 275—Resolution 010t, TC2 Within Europe Special Passenger Amending Resolution from Spain to Europe,

PTC2 EUR 0503—dated March 21, 2003,