

- (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