

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 ± 2 HRC; 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;

- (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/mm²; 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/mm²; 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/cm³; 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