

Material: ASTM A 479 S44800

Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A 479 S44800 Chromium and Chromium-Nickel Stainless Steel for Pressure Vessels and for General Applications

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Steel

| Chemical Composition | | | Heat Treatment | |
|----------------------|---------|-----------------|------------------------------------|----------|
| Carbon | C % | 0.010 max. | Annealing or Hardening + Tempering | |
| Silicon | Si % | 0.200 max. | | |
| Manganese | Mn % | 0.300 max. | | |
| Phosphorus | P % | 0.025 max. | | |
| Sulphur | S % | 0.020 max. | | |
| Chromium | Cr % | 28.000 - 30.000 | | |
| Molybdenum | Mo % | 3.500 - 4.200 | | |
| Nickel | Ni % | 2.000 - 2.500 | | |
| Nitrogen | N % | 0.020 max. | | |
| Copper | Cu % | 0.150 max. | | |
| C + N | C% + N% | 0.025 max. | Mechanical Properties | |
| Iron | Fe % | Balance | Tensile Strength in Mpa | 485 min. |
| - | - | - | Yield Strength in Mpa | 380 min. |
| - | - | - | Elongation in % | 20 min. |
| - | - | - | Reduction of Area in % | 40 min. |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|-------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A240 UNS S44800 | ASTM | USA | Steel, Plate, Sheet and Strip |
| S44800 | UNS | USA | Steel |
| A176 S44800 | ASTM | USA | Steel, Sheet, Plate and Strip |
| A276 S44800 | ASTM | USA | Steel, Bar and Shapes |
| A493 S44800 | ASTM | USA | Steel, Wire, Rod and Forging |
| A580 S44800 | ASTM | USA | Steel and Wire |
| SA-276 S44800 | ASME | USA | Steel, Bar and Shapes |

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