

Material: ASTM A240 UNS S30200

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 A240 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, Plate, Sheet and Strip

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|-------------------------|----------|
| Carbon | C % | 0.150 max. | Solution Annealing | |
| Silicon | Si % | 0.750 max. | | |
| Manganese | Mn % | 2.000 max. | | |
| Phosphorus | P % | 0.045 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 17.000 - 19.000 | | |
| Nickel | Ni % | 8.000 - 10.000 | | |
| Nitrogen | N % | 0.100 max. | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| | | | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 515 min. |
| - | - | - | Yield Strength in Mpa | 205 min. |
| - | - | - | Elongation in % | 40 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in HB | 201 max. |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|--|
| Material | Standard | Country | Grade Belong to the Industry |
| A743 CF8 | ASTM | USA | Casting |
| 304 | AISI | USA | Bar, Wire, Strip, Plate, Sheet and Forging |
| 1.4308 | DIN | Germany | Casting |
| 1.4301 | EN | European Union | Forging |
| 304 S 11 | BS | British | Bright Bars, Hot Rolled and Cold Rolled Coil |
| SUS 304 | JIS | Japan | Hot Rolled Equal Leg Angles |
| 08CH18N10 | GOST | Russia | Pipes, Fittings, Bar, Sheet and Forging |

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