

Material: ASTM A 959 S43932

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 959 S43932 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 % | 0.030 max. | Annealing or Hardening + Tempering | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 1.000 max. | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 17.000 - 19.000 | | |
| Nickel | Ni % | 0.500 max. | | |
| Nitrogen | N % | 0.030 max. | | |
| Aluminium | Al % | 0.150 max. | | |
| Ti + Nb | Ti% + Nb% | 0.750 max. | | |
| Iron | Fe % | Balance | Mechanical Properties | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| | | | Tensile Strength in Mpa | 415 min. |
| | | | Yield Strength in Mpa | 205 min. |
| | | | Elongation in % | 22 min. |
| | | | Reduction of Area in % | - |
| | | | Hardness in HB | 183 max. |
| | | | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|-------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A240 UNS S43932 | ASTM | USA | Steel, Plate, Sheet and Strip |
| S43932 | UNS | USA | Steel |
| S43940 | UNS | USA | Steel |
| A240 UNS S43940 | ASTM | USA | Steel, Sheet, Plate and Strip |
| A268 S43940 | ASTM | USA | Steel and Tube |
| A959 S43940 | ASTM | USA | Steel |
| - | - | - | - |

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