

Material: ASTM A 959 S30815

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 S30815 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 % | 0.050 - 0.100 | Solution Annealing | |
| Silicon | Si % | 1.400 - 2.000 | | |
| Manganese | Mn % | 0.800 max. | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 20.000 - 22.000 | | |
| Nickel | Ni % | 10.000 - 12.000 | | |
| Cerium | Ce % | 0.030 - 0.080 | | |
| Nitrogen | N % | 0.140 - 0.200 | Mechanical Properties | |
| Iron | Fe % | Balance | Tensile Strength in Mpa | 600 min. |
| - | - | - | Yield Strength in Mpa | 310 min. |
| - | - | - | Elongation in % | 40 min. |
| - | - | - | Reduction of Area in % | 50 min. |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | | |
|-----------------------|----------|-----------|-------------------------------|--|
| Material | Standard | Country | Grade Belong to the Industry | |
| A240 UNS S30815 | ASTM | USA | Steel, Plate, Sheet and Strip | |
| S30815 | UNS | USA | Steel, Plate, Sheet and Strip | |
| S30815 | AS | Australia | Steel, Plate, Sheet and Strip | |
| A167 S30815 | ASTM | USA | Steel, Plate, Sheet and Strip | |
| A249 S30815 | ASTM | USA | Steel and Tube | |
| A276 S30815 | ASTM | USA | Steel, Bar and Shapes | |
| A409 S30815 | ASTM | USA | Steel and Pipe | |

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