

Material: ASTM A 959 N08020

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 N08020 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 | | |
|----------------------|------|-----------------|
| Carbon | C % | 0.070 max. |
| Silicon | Si % | 1.000 max. |
| Manganese | Mn % | 2.000 max. |
| Phosphorus | P % | 0.045 max. |
| Sulphur | S % | 0.035 max. |
| Chromium | Cr % | 19.000 - 21.000 |
| Molybdenum | Mo % | 2.000 - 3.000 |
| Nickel | Ni % | 32.000 - 38.000 |
| Copper | Cu % | 3.000 - 4.000 |
| Niobium | Nb % | 1.000 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment | |
|----------------|--------------------|
| | Solution Annealing |

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 550 min. |
| Yield Strength in Mpa | 240 min. |
| Elongation in % | 20 min. |
| Reduction of Area in % | - |
| Hardness in HB | 217 max. |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|-------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A240 UNS N08020 | ASTM | USA | Steel, Plate, Sheet and Strip |
| A240 UNS N08020 | ASTM | USA | Steel and Pipe |
| A358 N08020 | ASTM | USA | Steel and Pipe |
| N08020 | UNS | USA | Steel |
| N08321 | UNS | USA | Steel |
| NiCr20CuMo | DIN | Germany | Steel |
| - | - | - | - |

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Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India