

Material - ASME SA-312 UNS S31725

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 - ASME SA-312 UNS S31725 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 and Pipe

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|-------------------------|----------|
| Carbon | C % | 0.030 max. | Solution Annealing | |
| Silicon | Si % | 0.750 max. | | |
| Manganese | Mn % | 2.000 max. | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 18.000 - 20.000 | | |
| Molybdenum | Mo % | 4.000 - 5.000 | | |
| Nickel | Ni % | 13.500 - 17.500 | | |
| Copper | Cu % | 0.750 max. | Mechanical Properties | |
| Nitrogen | N % | 0.100 max. | Tensile Strength in Mpa | 515 min. |
| Iron | Fe % | Balance | Yield Strength in Mpa | 205 min. |
| - | - | - | Elongation in % | 25 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | | |
|-----------------------|----------|-----------|----------------------------------|--|
| Material | Standard | Country | try Grade Belong to the Industry | |
| A240 UNS S31725 | ASTM | USA | Steel, Plate, Sheet and Strip | |
| A358 S31725 | ASTM | USA | Steel | |
| A403 WP S31725 | ASTM | USA | Steel and Pipe | |
| A943 S31725 | ASTM | USA | Steel and Pipe | |
| SA-376 | ASME | USA | Steel and Pipe | |
| SA-409 UNS S31725 | ASME | USA | Steel and Pipe | |
| A240 S31726 | ASTM | USA Steel | | |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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