

Material: ASTM A240 UNS S31727

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 % | 0.030 max. | Solution Annealing | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 1.000 max. | | |
| Phosphorus | P % | 0.030 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 17.500 - 19.000 | | |
| Nickel | Ni % | 14.500 - 16.500 | | |
| Molybdenum | Mo % | 3.800 - 4.500 | | |
| Nitrogen | N % | 0.150 - 0.210 | | |
| Copper | Cu % | 2.800 - 4.000 | | |
| Iron | Fe % | Balance | Mechanical Properties Tensile Strength in Mpa 550 min. Yield Strength in Mpa 245 min. Elongation in % 35 min. Reduction of Area in % - Hardness in BHN 217 max. Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| S31727 | UNS | USA | Steel |
| A409 S31727 | ASTM | USA | Steel |
| A813 S31727 | ASTM | USA | Steel |
| A814 S31727 | ASTM | USA | Steel |
| A959 S31727 | ASTM | USA | Steel |
| SA 182 F 72 | ASME | USA | Steel |
| SA-182 S31727 | ASME | USA | Steel |

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

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