

Material: SAE XM-18

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: SAE XM-18 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. | Solution Annealing | |
| Silicon | Si % | 0.750 max. | | |
| Manganese | Mn % | 7.500 - 9.000 | | |
| Phosphorus | P % | 0.045 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 17.500 - 22.000 | | |
| Molybdenum | Mo % | 2.000 - 3.000 | | |
| Nickel | Ni % | 5.000 - 7.000 | | |
| Nitrogen | N % | 0.250 - 0.500 | | |
| Iron | Fe % | Balance | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 620 min. |
| - | - | - | Yield Strength in Mpa | 345 min. |
| - | - | - | Elongation in % | 40 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | 241 max. |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|-------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A240 UNS S21600 | ASTM | USA | Steel, Plate, Sheet and Strip |
| S21600 | UNS | USA | Steel |
| XM-17 | SAE | USA | Steel |
| A492 Type XM-17 | ASTM | USA | Steel and Wire |
| A959 Type XM-17 | ASTM | USA | Steel |
| A240 Type XM-18 | ASTM | USA | Steel, Plate, Sheet and Strip |
| A959 Type XM-18 | ASTM | 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