

Material: ASTM A240 UNS S44626

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 % | 0.060 max. | Annealing or Hardening + Tempering | |
| Silicon | Si % | 0.750 max. | | |
| Manganese | Mn % | 0.750 max. | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.020 max. | | |
| Chromium | Cr % | 25.000 - 27.000 | | |
| Nickel | Ni % | 0.500 max. | | |
| Molybdenum | Mo % | 0.750 - 1.500 | | |
| Nitrogen | N % | 0.040 max. | | |
| Copper | Cu % | 0.200 max. | | |
| Titanium | Ti % | 0.200 - 1.000 | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| | | | Mechanical Properties | |
| | | | Tensile Strength in Mpa | 470 min. |
| | | | Yield Strength in Mpa | 310 min. |
| | | | Elongation in % | 20 min. |
| | | | Reduction of Area in % | - |
| | | | Hardness in BHN | 217 max. |
| | | | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|-------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| S44626 | UNS | USA | Steel |
| XM-33 | SAE | USA | Steel |
| A176 Type XM-33 | ASTM | USA | Steel, Sheet, Plate and Strip |
| A268 TP XM-33 | ASTM | USA | Steel and Tube |
| A959 Type XM-33 | ASTM | USA | Steel |
| A731 Grade TP XM-33 | ASTM | USA | Steel and Pipe |
| A791 Grade TP XM-33 | ASTM | USA | Steel and Tube |

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