

Material: ASTM A 580 Type XM-29

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 580 Type XM-29 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 Wire

| Chemical Composition | | |
|----------------------|------|-----------------|
| Carbon | C % | 0.080 max. |
| Silicon | Si % | 1.000 max. |
| Manganese | Mn % | 11.500 - 14.500 |
| Phosphorus | P % | 0.060 max. |
| Sulphur | S % | 0.030 max. |
| Chromium | Cr % | 17.000 - 19.000 |
| Nickel | Ni % | 2.300 - 3.700 |
| Nitrogen | N % | 0.200 - 0.400 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 690 min. |
| Yield Strength in Mpa | 380 min. |
| Elongation in % | 30 min. |
| Reduction of Area in % | 50 min. |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|-------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A240 UNS S24000 | ASTM | USA | Steel, Plate, Sheet and Strip |
| S24000 | UNS | USA | Steel and Pipe |
| A276 XM-29 | ASTM | USA | Steel, Bar and Shapes |
| XM-290 | SAE | USA | Steel |
| A479 XM-29 | ASTM | USA | Steel and Bar |
| A358 xm-29 | ASTM | USA | Steel and Pipe |
| A314 XM-29 | ASTM | USA | Steel, Rolling and Forging |

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