

Material: DIN X12CrMnNiN17-7-5

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: DIN X12CrMnNiN17-7-5 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, Sheet, Plate and Strip

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|-------------------------|-----------|
| Carbon | C % | 0.150 max. | Solution Annealing | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 5.500 - 7.500 | | |
| Phosphorus | P % | 0.045 max. | | |
| Sulphur | S % | 0.015 max. | | |
| Chromium | Cr % | 16.000 - 18.000 | | |
| Nickel | Ni % | 3.500 - 5.500 | | |
| Nitrogen | N % | 0.050 - 0.250 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 750 - 950 |
| - | - | - | Yield Strength in Mpa | 330 min. |
| - | - | - | Elongation in % | 40 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|-------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A240 UNS S20100 | ASTM | USA | Steel, Plate, Sheet and Strip |
| 1.4372 | DIN | Germany | Steel |
| SUS 201 | JIS | Japan | Steel, Wire and Forging |
| X12CrMnNiN17-7-5 | AFNOR NF | France | Steel |
| X12CrMnNiN17-7-5 | UNI | Italy | Steel |
| X12CrMnNiN17 7 5 | EN | European Union | Steel |
| 201 | SAE | USA | Steel |

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