

Material: DIN 1.4059

Standard Specification for Corrosion Resistant Steel Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4059 Corrosion Resistant Steel Castings

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|--------------------------|-----------|
| Carbon | C % | 0.200 - 0.270 | Normalizing or Annealing | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 1.000 max. | | |
| Phosphorus | P % | 0.045 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 16.000 - 18.000 | | |
| Nickel | Ni % | 1.000 - 2.000 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 780 - 980 |
| - | - | - | Yield Strength in Mpa | 590 min. |
| - | - | - | Elongation in % | 4 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | 200 - 300 |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| J91803 | UNS | USA | Casting |
| AoX 20 CrNi 17-2 | MSZ | Hungary | Casting |
| ANC 2 | BS | British | Casting |
| Z 20 Cn 17.2M | AFNOR NF | France | Casting |
| G X 22 CrNi 17 | DIN | Germany | Casting |
| A743 CB30 | ASTM | USA | Casting |
| 3444 Grade 12 | IS | India | Casting |

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