

Material: EN 1.4301

Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 1.4301 Castings, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|-------------------------|------------|
| Carbon | C % | 0.070 max. | Solution Annealing | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 2.000 max. | | |
| Phosphorus | P % | 0.045 max. | | |
| Sulphur | S % | 0.015 max. | | |
| Chromium | Cr % | 17.500 - 19.500 | | |
| Nickel | Ni % | 8.000 - 10.500 | | |
| Nitrogen | N % | 0.100 max. | | |
| Iron | Fe % | Balance | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 500 - 2300 |
| - | - | - | Yield Strength in Mpa | 225 min. |
| - | - | - | Elongation in % | 1 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | 60 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| 1.4308 | DIN | Germany | Casting |
| 304 | AISI | USA | Bar, Wire, Strip, Plat, Sheet and Forging |
| 304 S11 | BS | British | Bright Bars, Hot Rolled and Cold Rolled, Coil |
| SUS 304 | JIS | Japan | Hot Rolled Equal Leg Angles |
| 08CH18N10 | GOST | Russia | Pipes, Fittings, Bar, Sheet and Forging |
| A743 CF8 | ASTM | USA | Casting |
| A351 CF8 | ASTM | USA | Casting |

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