

Material: ASTM A743 CF16F

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

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A743 / A743M Casting, Iron-Chromium-Nickel, corrosion Resistant Casting, 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 % | 0.160 max. | Solution Annealing | |
| Silicon | Si % | 2.000 max. | | |
| Manganese | Mn % | 1.500 max. | | |
| Phosphorus | P % | 0.170 max. | | |
| Sulphur | S % | 0.040 max. | | |
| Chromium | Cr % | 18.000 - 21.000 | | |
| Nickel | Ni % | 9.000 - 12.000 | | |
| Molybdenum | Mo % | 1.500 max. | | |
| Selenium | Se % | 0.200 - 0.350 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 485 min. Yield Strength in Mpa 205 min. Elongation in % 25 min. Reduction of Area in % - Hardness in BHN - Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| J92701 | UNS | USA | Casting |
| 302 C 25 | BS | British | Casting |
| SCS 12 | JIS | Japan | Casting |
| 10 Ch 18N9L | GOST | Russia | Casting |
| Z 10 CN 18.9M | AFNOR NF | France | Casting |
| F.8411 | UNE | Spain | Casting |
| L H 18 N 9 | PN | Poland | Casting |

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