

Material: ASTM A743 CN7M

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 % | 0.070 max. | Solution Annealing | |
| Silicon | Si % | 1.500 max. | | |
| Manganese | Mn % | 1.500 max. | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.040 max. | | |
| Chromium | Cr % | 19.000 - 22.000 | | |
| Nickel | Ni % | 27.500 - 30.500 | | |
| Molybdenum | Mo % | 2.000 - 3.000 | | |
| Copper | Cu % | 3.000 - 4.000 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 425 min. Yield Strength in Mpa 170 min. Elongation in % 35 min. Reduction of Area in % - Hardness in BHN - Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
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| - | - | - | | |
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| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| SA-351 CN7M | ASME | USA | Casting |
| 1.45 | DIN | Germany | Casting |
| SCS 23 | JIS | Japan | Centrifugal Cast Steel Pipes |
| GX 5 NiCrCuMo 29-21 | UNI | Italy | Casting |
| F.8417 | UNE | Spain | Casting |
| A351 CN7M | ASTM | USA | Casting |
| A744 CN7M | ASTM | USA | Casting |

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