

Material: ASTM A 744 Grade CZ-100

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

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM A 744 Grade CZ-100 Castings, Iron-Chromium, 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 | | |
|----------------------|------|------------|
| Carbon | C % | 1.000 max. |
| Silicon | Si % | 2.000 max. |
| Manganese | Mn % | 1.500 max. |
| Phosphorus | P % | 0.030 max. |
| Sulphur | S % | 0.030 max. |
| Copper | Cu % | 1.250 max. |
| Iron | Fe % | 3.000 max. |
| Nickel | Ni % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment | |
|--------------------------------------|--|
| As-Cast or Annealing or Age Hardning | |

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 345 min. |
| Yield Strength in Mpa | 125 min. |
| Elongation in % | 10 min. |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 3444 Grade 21 | IS | India | Casting |
| A 743 Grade CZ-100 | ASTM | USA | Casting |
| CZ-100 | NMX | Mexico | Casting |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
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