

Material: IS 11286 Grade 4B

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

Group: Non-Ferrous Nickel Alloys

Sub Group: IS 11286 Grade 4B 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 | | | Heat Treatment | |
|----------------------|------|-----------------|--------------------------------------|----------|
| Carbon | C % | 0.350 max. | As-Cast or Annealing or Age Hardning | |
| Silicon | Si % | 1.250 max. | | |
| Manganese | Mn % | 1.500 max. | | |
| Phosphorus | P % | 0.030 max. | | |
| Iron | Fe % | 3.500 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Copper | Cu % | 26.000 - 33.000 | | |
| Nickel | Ni % | Balance | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 450 min. |
| - | - | - | Yield Strength in Mpa | 170 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 |
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