

Material: IS 7806 Grade 13

Standard Specification for Heat Resistant Alloy Steel Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: IS 7806 Grade 13 Alloy Steel Casting for Heat Resistant

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|------|-----------------|
| Carbon | C % | 0.100 max. |
| Silicon | Si % | 1.500 max. |
| Manganese | Mn % | 1.500 max. |
| Phosphorus | P % | 0.040 max. |
| Sulphur | S % | 0.040 max. |
| Chromium | Cr % | 15.000 - 18.000 |
| Nickel | Ni % | 13.000 - 16.000 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|--------------------|
| Solution Annealing |

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 480 min. |
| Yield Strength in Mpa | 210 min. |
| Elongation in % | 19 min. |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| SA-351 CF10MC | ASME | USA | Casting |
| 20CH20N14S2L | GOST | Russia | Casting |
| GX25CrNiSi 20-14 | DIN | Germany | Casting |
| A351 CF10MC | ASTM | USA | Casting |
| LH 19 N 14 G | PN | Poland | Casting |
| 1.4832 | DIN | Germany | Casting |
| J92971 | UNS | USA | Casting |

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