

Material: IS 4522 Grade 7

Standard Specification for Heat Resistant Alloy Steel and Nickel Base Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: IS 4522 Grade 7 Heat Resistant Alloy Steel and Nickel Base Castings

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|------|-----------------|
| Carbon | C % | 0.200 - 0.500 |
| Silicon | Si % | 2.000 max. |
| Manganese | Mn % | 2.000 max. |
| Phosphorus | P % | 0.050 max. |
| Sulphur | S % | 0.050 max. |
| Chromium | Cr % | 23.000 - 27.000 |
| Nickel | Ni % | 11.000 - 14.000 |
| Molybdenum | Mo % | 0.500 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|-------------------------|-----------|
| Tensile Strength in Mpa | 510 - 540 |
| Yield Strength in Mpa | 250 - 540 |
| Elongation in % | 10 - 15 |
| Reduction of Area in % | - |
| Hardness in HB | 150 - 240 |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| J93503 | UNS | USA | Casting |
| 1.4837 | DIN | Germany | Casting |
| 309 C 30 | BS | British | Casting |
| SCH 13 A | JIS | Japan | Casting |
| 422936 | CSN | Czech Republic | Casting |
| 40 CH 24N 12 SL | GOST | Russia | Casting |
| 40 CrNiSi 25-12 | MSZ | Hungary | Casting |

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