## Material - IS 4522 Grade 6

Standard Specification for Heat Resistant Alloy Steel and Nickel Base Castings
Group - Ferrous Stainless Steel Alloys
Sub Group - IS 4522 Grade 6 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 |  |  | Heat Treatment |  |
| :---: | :---: | :---: | :---: | :---: |
| Carbon | C \% | 0.200-0.500 | As - Cast or Annealing |  |
| Silicon | Si \% | 2.000 max. |  |  |
| Manganese | Mn \% | 2.000 max. |  |  |
| Phosphorus | P \% | 0.050 max. |  |  |
| Sulphur | S \% | 0.050 max. |  |  |
| Chromium | $\mathrm{Cr} \%$ | 26.000-30.000 |  |  |
| Nickel | Ni \% | 8.000-10.000 |  |  |
| Molybdenum | Mo \% | 0.500 max. | $\square$ |  |
| Iron | Fe \% | Balance | Mechanical Properties |  |
| - | - |  | Tensile Strength in Mpa | 570-610 |
| - | - | - | Yield Strength in Mpa | 290-340 |
| - | - | - | Elongation in \% | 45207 |
| - | - | - | Reduction of Area in \% | - |
| - | - | - | Hardness in HB | 160-220 |
| - | - | - | Impact in Joule | - |


| Cross Reference Table |  |  |  |
| :---: | :---: | :---: | :---: |
| Material | Standard | Country | Grade Belong to the Industry |
| J93403 | UNS | USA | Casting |
| SCH 18 | JIS | Japan | Casting |
| J94013 | UNS | USA | Casting |
| A608 Grade HI 35 | ASTM | USA | Casting |
| J93403 | UNS | USA | Casting |
| SCH 17 | JIS | Japan | Casting |
| A608 Grade HE 35 | ASTM | USA | Casting |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. - Gravity Group of Companies team member Call on +918469160029 , or email marketing@gravitycastindia.com

