

Material: JIS SCS 6

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: JIS SCS 6 Steel Castings for General Engineering Purposes

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|------|-----------------|
| Carbon | C % | 0.060 max. |
| Silicon | Si % | 1.000 max. |
| Manganese | Mn % | 1.000 max. |
| Phosphorus | P % | 0.040 max. |
| Sulphur | S % | 0.030 max. |
| Chromium | Cr % | 11.500 - 14.000 |
| Nickel | Ni % | 3.500 - 4.500 |
| Molybdenum | Mo % | 0.400 - 1.000 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|--|
| As Cast or Annealing or Normalizing or Hardening and Tempering |

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 750 min. |
| Yield Strength in Mpa | 550 min. |
| Elongation in % | 15 min. |
| Reduction of Area in % | 35 min. |
| Hardness in BHN | 285 max. |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|-----------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 425C12 | BS | British | Casting |
| 2074/H3D | AS | Australia | Casting |
| 3444 Grade 24 | IS | India | Casting |
| A 352 Grade CA6NM | ASTM | USA | Casting |
| 4899 Grade 10 | IS | India | Casting |
| A 352 J91540 | ASTM | USA | Casting |
| SA-352 Grade CA6NM | ASME | USA | Casting |

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