

Material: JIS SCPL 11

Standard Specification for Steel Castings for Low Temperature and High Pressure Service

Group: Ferrous Mild Steel Alloys

Sub Group: JIS SCPL 11 Steel Castings for Low Temperature and High Pressure Service

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|------|---------------|
| Carbon | C % | 0.250 max. |
| Silicon | Si % | 0.600 max. |
| Manganese | Mn % | 0.500 - 0.800 |
| Phosphorus | P % | 0.040 max. |
| Sulphur | S % | 0.040 max. |
| Chromium | Cr % | 0.350 max. |
| Molybdenum | Mo % | 0.450 - 0.650 |
| Copper | Cu % | 0.500 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|--|
| Normalizing + Tempering or Hardening + Tempering |

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 450 min. |
| Yield Strength in Mpa | 245 min. |
| Elongation in % | 21 min. |
| Reduction of Area in % | 35 min. |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| SA-352 Grade LC1 | ASME | USA | Casting |
| 4422 | AISI | USA | Bar |
| G20Mo5 | DIN | Germany | Casting |
| 243 - 430 | BS | British | Forging |
| J12522 | UNS | USA | Casting |
| G18Mo5 | UNI | Italy | Casting |
| A352 LC1 | ASTM | USA | Casting |

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Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India