

Material: EN 1.1119

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: EN 1.1119 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|------|---------------|
| Carbon | C % | 0.200 - 0.250 |
| Silicon | Si % | 0.300 - 0.500 |
| Manganese | Mn % | 1.500 - 1.700 |
| Phosphorus | P % | 0.015 max. |
| Sulphur | S % | 0.003 max. |
| Chromium | Cr % | 0.300 max. |
| Nickel | Ni % | 0.400 max. |
| Molybdenum | Mo % | 0.150 max. |
| Copper | Cu % | 0.300 max. |
| Vanadium | V % | 0.050 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|-------------------------|---|
| Tensile Strength in Mpa | - |
| Yield Strength in Mpa | - |
| Elongation in % | - |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 1.1118 | DIN | Germany | Casting |
| 1.1119 | DIN | Germany | Casting |
| 1.1118 | EN | Germany | Casting |
| GS-24Mn6 | DIN | Germany | Casting |
| GS-23Mn6 | DIN | Germany | Casting |
| G23 Mn6 | EN | European Union | Casting |
| GS-24Mn6 | EN | European Union | Casting |

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