

Material: DIN 1.7365

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: DIN 1.7365 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|---|-----------|
| Carbon | C % | 0.120 - 0.190 | Normalizing or Annealing or Hardening + Tempering | |
| Silicon | Si % | 0.800 max. | | |
| Manganese | Mn % | 0.500 - 0.800 | | |
| Phosphorus | P % | 0.025 max. | | |
| Sulphur | S % | 0.025 max. | | |
| Chromium | Cr % | 4.000 - 6.000 | | |
| Molybdenum | Mo % | 0.450 - 0.650 | | |
| Vanadium | V % | 0.050 max. | | |
| Iron | Fe % | Balance | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 630 - 760 |
| - | - | - | Yield Strength in Mpa | 420 min. |
| - | - | - | Elongation in % | 16 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | 27 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 1.7365 | EN | European Union | Casting |
| 17102 | CSN | Czech Republic | Steel |
| GX15CrMo5 | DIN | Germany | Casting |
| GX15CrMo5 | EN | European Union | Casting |
| GX15CrMo5 | AFNOR NF | France | Casting |
| H 5 M | PN | Poland | Steel |
| - | - | - | - |

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