

## Material: DIN 1.4517

### Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN 1.4517 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 %  | 0.030 max.      | Solution Annealing   |  |
| Silicon              | Si % | 1.000 max.      |  |  |
| Manganese            | Mn % | 1.500 max.      |  |  |
| Phosphorus           | P %  | 0.035 max.      |  |  |
| Sulphur              | S %  | 0.025 max.      |  |  |
| Chromium             | Cr % | 24.500 - 26.500 |  |  |
| Molybdenum           | Mo % | 2.500 - 3.500   |  |  |
| Nickel               | Ni % | 5.000 - 7.000   |  |  |
| Copper               | Cu % | 2.750 - 3.500   |  |  |
| Nitrogen             | N %  | 0.120 - 0.220   |  |  |
| Iron                 | Fe % | Balance         | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 650 - 850<br>Yield Strength in Mpa 480 min.<br>Elongation in % 22 min.<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule 50 J @ RT |  |
| -                    | -    | -               |  |  |
| -                    | -    | -               |  |  |
| -                    | -    | -               |  |  |
| -                    | -    | -               |  |  |
| -                    | -    | -               |  |  |
| -                    | -    | -               |  |  |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| 1.4517                | EN       | European Union | Casting                      |
| 1.4517                | DIN      | Germany        | Casting                      |
| GX2CrNiMoCuN25-6-3-3  | UNI      | Italy          | Casting                      |
| GX2CrNiMoCuN25-6-3-3  | EN       | European Union | Casting                      |
| GX2CrNiMoCuN25-6-3-3  | DIN      | Germany        | Casting                      |
| GX2CrNiMoCuN25-6-3-3  | AFNOR NF | France         | Casting                      |
| -                     | -        | -              | -                            |

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