

# Material: ISO 1.4417

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ISO 1.4417 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.      | Normalizing or Quenching or Solution Annealing |           |
| Silicon              | Si % | 1.000 max.      |                                                |           |
| Manganese            | Mn % | 1.500 max.      |                                                |           |
| Phosphorus           | P %  | 0.030 max.      |                                                |           |
| Sulphur              | S %  | 0.020 max.      |                                                |           |
| Chromium             | Cr % | 24.000 - 26.000 |                                                |           |
| Molybdenum           | Mo % | 3.000 - 4.000   |                                                |           |
| Nickel               | Ni % | 6.000 - 8.500   |                                                |           |
| Copper               | Cu % | 1.000 max.      |                                                |           |
| Nitrogen             | N %  | 0.150 - 0.250   |                                                |           |
| Tungsten             | W %  | 1.000 max.      | Mechanical Properties                          |           |
| Iron                 | Fe % | Balance         | Tensile Strength in Mpa                        | 650 min.  |
| -                    | -    | -               | Yield Strength in Mpa                          | 480 min.  |
| -                    | -    | -               | Elongation in %                                | 22 min.   |
| -                    | -    | -               | Reduction of Area in %                         | -         |
| -                    | -    | -               | Hardness in BHN                                | -         |
| -                    | -    | -               | Impact in Joule                                | 50 J @ RT |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| GX2CrNiMoN25-7-3      | BS       | British        | Plate, Tubes and Forging     |
| GX2CrNiMoN25-7-3      | ISO      | International  | Casting                      |
| GX2CrNiMoN25-7-3      | BDS      | Bulgaria       | Casting                      |
| 1.4417                | BDS      | Bulgaria       | Casting                      |
| GX2CrNiMoN25-7-3      | CSN      | Czech Republic | Casting                      |
| 1.4417                | CSN      | Czech Republic | Casting                      |
| 1.4417                | EN       | European Union | Casting                      |

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