

# Material: UNS GX2CrNiMoN25-7-3

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** UNS GX2CrNiMoN25-7-3 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 %  | 0.030 max.      |                         |           |
| Sulphur              | S %  | 0.020 max.      |                         |           |
| Chromium             | Cr % | 24.000 - 26.000 |                         |           |
| Molybdenum           | Mo % | 3.000 - 4.000   |                         |           |
| Nickel               | Ni % | 6.000 - 8.500   |                         |           |
| Tungsten             | W %  | 1.000 max.      |                         |           |
| Copper               | Cu % | 1.000 max.      |                         |           |
| Nitrogen             | N %  | 0.150 - 0.250   | Mechanical Properties   |           |
| Iron                 | Fe % | Balance         | Tensile Strength in Mpa | 650 - 900 |
| -                    | -    | -               | Yield Strength in Mpa   | 400 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 |
| 1.4417                | EN       | European Union | Casting                      |
| 1.4417                | DIN      | Germany        | Casting                      |
| 1.4417                | DIN      | Germany        | Casting                      |
| GX2CrNiMoN25-7-3      | DIN      | Germany        | Casting                      |
| GX2CrNiMoN25-7-3      | EN       | European Union | Casting                      |
| GX2CrNiMoN25-7-3      | AFNOR NF | France         | Casting                      |
| -                     | -        | -              | -                            |

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