

Material: AFNOR NF GX 2 CrNiMoN 22 5 3

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: AFNOR NF GX 2 CrNiMoN 22 5 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 % | 2.000 max. | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.025 max. | | |
| Chromium | Cr % | 21.000 - 23.000 | | |
| Molybdenum | Mo % | 2.500 - 3.500 | | |
| Nickel | Ni % | 4.500 - 6.500 | | |
| Nitrogen | N % | 0.120 - 0.200 | | |
| Copper | Cu % | 0.500 max. | | |
| Iron | Fe % | Balance | Mechanical Properties Tensile Strength in Mpa 600 - 800 Yield Strength in Mpa 420 min. Elongation in % 20 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 30 J @ RT | |
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| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 1.4470 | EN | European Union | Casting |
| 1.447 | DIN | Germany | Casting |
| 1.447 | DIN | Germany | Casting |
| GX2CrNiMoN22-5-3 | UNI | Italy | Casting |
| GX2CrNiMoN22-5-3 | DIN | Germany | Casting |
| GX2CrNiMoN22-5-3 | DIN | Germany | Casting |
| GX2CrNiMoN22-5-3 | EN | European Union | Casting |

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