

Material: SFS GX 3 CrNi 13 4

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: SFS GX 3 CrNi 13 4 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|------|-----------------|
| Carbon | C % | 0.050 max. |
| Silicon | Si % | 1.000 max. |
| Manganese | Mn % | 1.000 max. |
| Phosphorus | P % | 0.035 max. |
| Sulphur | S % | 0.015 max. |
| Chromium | Cr % | 12.000 - 13.500 |
| Molybdenum | Mo % | 0.700 max. |
| Nickel | Ni % | 3.500 - 5.000 |
| Copper | Cu % | 0.300 max. |
| Vanadium | V % | 0.800 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|--|
| Normalizing or Quenching or Solution Annealing |

| Mechanical Properties | |
|-------------------------|-----------|
| Tensile Strength in Mpa | 700 - 900 |
| Yield Strength in Mpa | 500 min. |
| Elongation in % | 15 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 |
| EN 10213 GX3CrNi13-4 | BS | British | Plate, Tubes and Forging |
| GX3CrNi13-4 | ISO | International | Casting |
| 1.6982 | ISO | International | Casting |
| 1.6982 | BDS | Bulgaria | Casting |
| GX 3 CrNi 13 4 | BDS | Bulgaria | Casting |
| 1.6982 | CSN | Czech Republic | Casting |
| GX 3 CrNi 13 4 | CSN | Czech Republic | Casting |

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