



## 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 |      |                 | Heat Treatment   |  |
|----------------------|------|-----------------|--|--|
| Carbon               | C %  | 0.050 max.      | Normalizing or Quenching or Solution Annealing   |  |
| 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         | <b>Mechanical Properties</b><br>Tensile Strength in Mpa      700 - 900<br>Yield Strength in Mpa      500 min.<br>Elongation in %      15 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 |
| 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                      |

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.