



## Material - BS 10213 EN 1.4317

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS 10213 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 %	0.060 max.	Normalising or Annealing or Hardening + Tempering															
Silicon	Si %	1.000 max.																
Manganese	Mn %	1.000 max.																
Phosphorus	P %	0.035 max.																
Sulphur	S %	0.025 max.																
Chromium	Cr %	12.000 - 13.500																
Nickel	Ni %	3.500 - 5.000																
Molybdenum	Mo %	0.700 max.																
Copper	Cu %	0.300 max.																
Vanadium	V %	0.080 max.																
Iron	Fe %	Balance	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>760 - 960</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>550 min.</td> </tr> <tr> <td>Elongation in %</td> <td>15 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>27 min. @ -120°C</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	760 - 960	Yield Strength in Mpa	550 min.	Elongation in %	15 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	27 min. @ -120°C
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.6982	BS	British	Casting
1.6982	DIN	Germany	Casting
GX3CrNi13-4	UNI	Italy	Casting
GX3CrNi13-4	DIN	Germany	Casting
GX3CrNi13-4	EN	European Union	Casting
GX3CrNi13-4	AFNOR NF	France	Casting
X2CrNiMo13-4	DIN	Germany	Forging

**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.