

Material: BS 10213 EN GX 3 CrNi 13 4

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 %	0.050 max.	Normalising or Annealing or Hardening + Tempering															
Silicon	Si %	1.000 max.																
Manganese	Mn %	1.000 max.																
Phosphorus	P %	0.035 max.																
Sulphur	S %	0.015 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>700 - 900</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>500 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	700 - 900	Yield Strength in Mpa	500 min.	Elongation in %	15 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	27 min. @ -120°C
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	27 min. @ -120°C																	
-	-	-																
-	-	-																
-	-	-																
-	-	-																
-	-	-																

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.6982	EN	European Union	Casting
1.6982	BS	British	Casting
1.6982	DIN	Germany	Casting
GX3 CrNi 13-4	UNI	Italy	Casting
GX3 CrNi 13-4	DIN	Germany	Casting
GX3 CrNi 13-4	AFNOR NF	France	Casting
X2 CrNiMo 13-4	DIN	Germany	Forging

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com