

## Material: BS 10213 EN 1.6982

### 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
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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

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