

Material: BS 10213 EN GX 2 CrNiMoN 22 5 3

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 %	0.030 max.	Solution Annealing															
Silicon	Si %	1.000 max.																
Manganese	Mn %	2.000 max.																
Phosphorus	P %	0.035 max.																
Sulphur	S %	0.025 max.																
Chromium	Cr %	21.000 - 23.000																
Nickel	Ni %	4.500 - 6.500																
Molybdenum	Mo %	2.500 - 3.500																
Copper	Cu %	0.500 max.																
Nitrogen	N %	0.120 - 0.200																
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>600 - 800</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>420 min.</td> </tr> <tr> <td>Elongation in %</td> <td>20 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>30 min. @ RT</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	600 - 800	Yield Strength in Mpa	420 min.	Elongation in %	20 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	30 min. @ RT
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.447	EN	European Union	Casting
1.447	DIN	Germany	Casting
1.447	BS	British	Casting
GX2CrNiMoN22-5-3	UNI	Italy	Casting
GX2CrNiMoN22-5-3	DIN	Germany	Casting
GX2CrNiMoN22-5-3	BS	British	Casting
GX2CrNiMoN22-5-3	AFNOR NF	France	Casting

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