

Material: BS 10213 EN GX 5 CrNiMoNb 19-11-2

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 %	0.070 max.	Solution Annealing															
Silicon	Si %	1.500 max.																
Manganese	Mn %	1.500 max.																
Phosphorus	P %	0.040 max.																
Sulphur	S %	0.030 max.																
Chromium	Cr %	18.000 - 20.000																
Nickel	Ni %	9.000 - 12.000																
Molybdenum	Mo %	2.000 - 2.500																
Copper	Cu %	0.500 max.																
Niobium	Nb %	8×C - 1.000 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>440 - 640</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>210 min.</td> </tr> <tr> <td>Elongation in %</td> <td>25 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>40 min. @ RT</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	440 - 640	Yield Strength in Mpa	210 min.	Elongation in %	25 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	40 min. @ RT
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4581	EN	European Union	Casting
1.4581	BS	British	Casting
1.4581	DIN	Germany	Casting
GX5CrNiMoNb19-11-2	DIN	Germany	Casting
GX5CrNiMoNb19-11-2	AFNOR NF	France	Casting
GX5CrNiMoNb19-11-2	UNI	Italy	Casting
G X 6 CrNiMoNb 20 11	UNI	Italy	Casting

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