

Material: BS 10213 EN 1.4517

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 %	1.500 max.																
Phosphorus	P %	0.035 max.																
Sulphur	S %	0.025 max.																
Chromium	Cr %	24.500 - 26.500																
Nickel	Ni %	5.000 - 7.000																
Molybdenum	Mo %	2.500 - 3.500																
Copper	Cu %	2.750 - 3.500																
Nitrogen	N %	0.120 - 0.220																
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>650 - 850</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>480 min.</td> </tr> <tr> <td>Elongation in %</td> <td>22 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>35 min. @ -70°C</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	650 - 850	Yield Strength in Mpa	480 min.	Elongation in %	22 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	35 min. @ -70°C
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4517	DIN	Germany	Casting
1.4517	BS	British	Casting
GX2CrNiMoCuN25-6-3-3	UNI	Italy	Casting
GX2CrNiMoCuN25-6-3-3	EN	European Union	Casting
GX2CrNiMoCuN25-6-3-3	DIN	Germany	Casting
GX2CrNiMoCuN25-6-3-3	BS	British	Casting
GX2CrNiMoCuN25-6-3-3	AFNOR NF	France	Casting

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