



Material - BS 10213 EN 1.4581

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	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	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4581	BS	British	Casting
1.4581	DIN	Germany	Casting
GX 5 CrNiMoNb19-11-2	DIN	Germany	Casting
GX 5 CrNiMoNb19-11-2	AFNOR NF	France	Casting
GX 5 CrNiMoNb19-11-2	EN	European Union	Casting
GX 5 CrNiMoNb19-11-2	UNI	Italy	Casting
G X 6 CrNiMoNb 20 11	UNI	Italy	Casting

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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