



Material - SS 1.4581

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - SS 1.4581 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.	Normalizing or Quenching or 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		
Molybdenum	Mo %	2.000 - 2.500		
Nickel	Ni %	9.000 - 12.000		
Copper	Cu %	0.500 max.		
Nb + Ta	Nb % + Ta %	1.000 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 440 - 640 Yield Strength in Mpa 185 min. Elongation in % 25 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 40 J @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX5CrNiMo19-11-2	BS	British	Plate, Tubes and Forging
1.4581	ISO	International	Casting
1.4581	UNI	Italy	Casting
1.4581	PN	Poland	Casting
1.4581	UNE	Spain	Casting
1.4581	BDS	Bulgaria	Casting
1.4581	MSZ	Hungary	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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