

Material: DIN 1.4581

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 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.	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		
Nb + Ta	Nb % + Ta %	1.000 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	440 - 650
-	-	-	Yield Strength in Mpa	185 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	40 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4581	EN	European Union	Casting
1.4581	DIN	Germany	Casting
GX5CrNiMoNb19-11-2	DIN	Germany	Casting
GX5CrNiMoNb19-11-2	AFNOR NF	France	Casting
GX5CrNiMoNb19-11-2	EN	European Union	Casting
GX5CrNiMoNb19-11-2	UNI	Italy	Casting
G X 6 CrNiMoNb 20 11	UNI	Italy	Casting

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

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