

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		
Carbon	C %	0.070 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

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

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