

Material: AFNOR NF GX5CrNiNb19-11

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: AFNOR NF GX5CrNiNb19-11 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 %	0.080 max.	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	2.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	18.000 - 21.000		
Nickel	Ni %	9.000 - 12.000		
Niobium	Nb %	1.350 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	440 - 640
-	-	-	Yield Strength in Mpa	175 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	-
-	-	-	Impact in Joule	40 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX5CrNiNb19-11	BS	British	Plate, Tubes and Forging
GX5CrNiNb19-11	ISO	International	Casting
1.4552	ISO	International	Casting
A 743 Grade CF-8C	ASTM	USA	Casting
A 743 J92710	ASTM	USA	Casting
A 744 Grade CF-8C	ASTM	USA	Casting
SCS 21	JIS	Japan	Casting

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