

Material: AFNOR NF X2CrNiMoN17-13-5

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: AFNOR NF X2CrNiMoN17-13-5 Seamless Steel Tubes for Pressure Purposes

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Steel, Bar and Rods

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	16.500 - 18.500		
Molybdenum	Mo %	4.000 - 5.000		
Nickel	Ni %	12.500 - 14.500		
Nitrogen	N %	0.120 - 0.220		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	580 - 800
-	-	-	Yield Strength in Mpa	270 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	250 max.
-	-	-	Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4439	BS	British	Tube
1.4439	DIN	Germany	Steel
1.4439	EN	European Union	Steel
X2CrNiMoN17 13 5	DIN	Germany	Steel
X2CrNiMoN17 13 5	ISO	International	Steel
X2CrNiMoN17 13 5 KW	ONORM	Australia	Steel
X2CrNiMoN17 13	UNE	Spain	Steel, Bar, Wire, Rod and Forging

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