

Material: EN X 10 CrNiMoMnNbVB 15-10-1

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: EN X 10 CrNiMoMnNbVB 15-10-1 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Steel and Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.070 - 0.130	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	5.500 - 7.000		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	14.000 - 16.000		
Molybdenum	Mo %	0.800 - 1.200		
Nickel	Ni %	9.000 - 11.000		
Niobium	Nb %	0.750 - 1.250		
Vanadium	V %	0.150 - 0.400		
			Mechanical Properties	
Boron	B %	0.003 - 0.009	Tensile Strength in Mpa	540 - 850
Iron	Fe %	Balance	Yield Strength in Mpa	220 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	50 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4982	BS	British	Tube
1.4982	DIN	Germany	Steel
1.4982	EN	European Union	Steel
-	-	-	-
-	-	-	-
-	-	-	-
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