

# 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		
Carbon	C %	0.070 - 0.130
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
Boron	B %	0.003 - 0.009
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	540 - 850
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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