

## Material: EN X 6 CrNiTiB 18-10

### Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** EN X 6 CrNiTiB 18-10 Seamless Steel Tubes for Pressure Purposes

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

**Grade Belongs to the Industry:** Steel and Flat

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 - 0.080	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	9.000 - 12.000		
Titanium	Ti %	0.800 max.		
Boron	B %	0.0015 - 0.0050	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	490 - 710
-	-	-	Yield Strength in Mpa	210 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4941	BS	British	Tube
1.4941	DIN	Germany	Steel and Flat
1.4941	EN	European Union	Steel and Flat
Z6 CNT 18-10B	AFNOR NF	France	Steel
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