

# Material: AFNOR NF Z 6 CNT 18-10 B

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** AFNOR NF Z 6 CNT 18-10 B Seamless Steel Tubes for Pressure Purposes

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

**Grade Belongs to the Industry:** Steel

Chemical Composition		
Carbon	C %	0.040 - 0.080
Silicon	Si %	0.750 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	17.500 - 19.000
Molybdenum	Mo %	0.500 max.
Nickel	Ni %	9.000 - 11.000
Titanium	Ti %	0.600 max.
Aluminium	Al %	0.500 max.
Boron	B %	0.0015 - 0.0060
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	510 - 710
Yield Strength in Mpa	195 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	45 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
X6CrNiTiB18-10	EN	European Union	Steel and Flat
-	-	-	-
-	-	-	-
-	-	-	-

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