

# Material: DIN 1.4961

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN 1.4961 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 - 0.100
Silicon	Si %	0.300 - 0.600
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	15.000 - 17.000
Nickel	Ni %	12.000 - 14.000
Niobium	Nb %	1.200 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	509.9 - 690
Yield Strength in Mpa	200 min.
Elongation in %	22 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 1.4961	BS	British	Tube
1.4961	EN	European Union	Steel
X8CrNiNb16-13	EN	European Union	Steel and Flat
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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