

# Material: BS 10216-5 EN 1.4961

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** BS 10216-5 Seamless Steel Tubes for Pressure Purposes

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

**Belongs to the Industry:** Tube

Chemical Composition			Heat Treatment			
Carbon	C %	0.040 - 0.100	Solution Annealing			
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 %	10*C - 1.200				
Iron	Fe %	Balance				
-	-	-	<b>Mechanical Properties</b>			
-	-	-			Tensile Strength in Mpa	510 - 690
-	-	-			Yield Strength in Mpa	205 min.
-	-	-			Elongation in %	22 min.
-	-	-			Reduction of Area in %	-
-	-	-			Hardness in BHN	-
-	-	-			Impact in Joule	60 min. @ RT
-	-	-				

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4961	EN	European Union	Steel
1.4961	DIN	Germany	Steel
X8CrNiNb16-13	EN	European Union	Steel and Flat
1.4961	BS	British	Steel
1.4961	UNI	Italy	Steel
1.4961	ONORM	Austria	Steel
1.4961	AFNOR NF	France	Steel

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**Customer Care:** +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)