



## 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	Mechanical Properties	
-	-	-	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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.