

Material: BS 10216-5 EN 1.4541

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 %	0.080 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	9.000 - 12.000		
Titanium	Ti %	5*C - 0.700		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	500 - 730
			Yield Strength in Mpa	200 min.
			Elongation in %	30 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	60 min. @ -196°C

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4541	DIN	Germany	Steel
1.4541	EN	European Union	Steel
04Ch18N10	GOST	Russia	Steel
304S11	BS	British	Steel and Bar
321	SAE	USA	Steel
X6CrNiTi18 10	DIN	Germany	Steel
X6CrNiTi18-10	AFNOR NF	France	Steel

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Customer Care: +91-99090 45075 Email: info@icastllp.com