



## Material - BS 10216-5 EN 1.4541

## **Standard Specification for Seemless Steel Tubes for Pressure Purposes**

**Group - Ferrous Stainless Steel Alloys** 

Sub Group - BS 10216-5 Seemless 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	-
-	-		Impac <mark>t in Joule</mark>	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	

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

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