



Material - BS 10216-5 EN 1.4550

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		
Niobium	Nb %	10*C - 1.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	510 - 740
-	-	-	Yield Strength in Mpa	205 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
1.455	DIN	Germany	Steel
1.455	EN	European Union	Steel
X6CrNiNb18 10	DIN	Germany	Steel and Tube
X6CrNiNb18 10	ISO	International	Steel, Forging and Bar
X6CrNiNb18 10S	ONORM	Austria	Steel
X6CrNiNb18 10	AFNOR NF	France	Steel, Bar and Rods
Z8CNNb18-10	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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