



Material - GOST 04Ch18N10

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - GOST 04Ch18N10 Seamless Steel Tubes for Pressure Purposes

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 max.	Solution Annealing	
Silicon	Si %	0.800 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	17.000 - 19.000		
Molybdenum	Mo %	0.300 max.		
Nickel	Ni %	9.000 - 11.000		
Tungsten	W %	0.200 max.		
Titanium	Ti %	0.200 max.		
Copper	Cu %	0.300 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	-
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4541	EN	European Union	Tube
1.4541	DIN	Germany	Steel
1.4541	DIN	Germany	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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