

Material: BS 10216-5 EN 1.4941

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Mild 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 - 0.080	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	9.000 - 12.000		
Titanium	Ti %	5*C - 0.800		
Boron	B %	0.0015 - 0.0050		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 490 - 680 Yield Strength in Mpa 195 min. Elongation in % 30 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 60 min. @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4941	EN	European Union	Steel and Flat
1.4941	DIN	Germany	Steel and Flat
Z6 CNT 18-10B	AFNOR NF	France	Steel
X6CrNiTiB18-10	EN	European Union	Steel and Flat
1.4941	BS	British	Steel
1.4941	UNI	Italy	Steel
1.4941	AFNOR NF	France	Steel

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