

Material: BS 10216-5 EN 1.4439

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 %	0.030 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 %	16.500 - 18.500		
Nickel	Ni %	12.500 - 14.500		
Molybdenum	Mo %	4.000 - 5.000		
Nitrogen	N %	0.120 - 0.220		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 580 - 800 Yield Strength in Mpa 285 min. Elongation in % 30 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 60 min. @ -196°C	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4439	EN	European Union	Steel
1.4439	DIN	Germany	Steel
X2CrNiMoN17 13 5	DIN	Germany	Steel
X2CrNiMoN17 13 5	ISO	International	Steel
X2CrNiMoN17 13 5 KW	ONORM	Austria	Steel
X2CrNiMoN17-13-5	AFNOR NF	France	Steel, Bar and Rod
X2CrNiMoN17 13	UNE	Spain	Steel, Bar, Wire, Rod and Forging

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