

Material: EN 1.4501

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 1.4501 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Steel, Sheet, Plate and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	24.000 - 26.000		
Molybdenum	Mo %	3.000 - 4.000		
Nickel	Ni %	6.000 - 8.000		
Tungsten	W %	0.500 - 1.000		
Copper	Cu %	0.500 - 1.000		
Nitrogen	N %	0.200 - 0.300	Mechanical Properties	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	730 - 1000
			Yield Strength in Mpa	515 min.
			Elongation in %	20 min.
			Reduction of Area in %	-
			Hardness in HB	310 max.
			Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4501	BS	British	Tube
1.4501	DIN	Germany	Steel, Sheet, Plate and Strip
X2CrNiMoCuDIN25-7-4	AFNOR NF	France	Steel
X2CrNiMoCuDIN25-7-4	DIN	Germany	Steel, Sheet, Strip and Plate
X2CrNiMoCuDIN25-7-4	UNI	Italy	Steel, Bar and Rod
X2CrNiMoCuDIN25-7-4	EN	European Union	Steel and Tube
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