

Material: EN 1.4571

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 1.4571 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 %	0.080 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	16.500 - 18.500		
Molybdenum	Mo %	2.000 - 2.500		
Nickel	Ni %	10.500 - 13.500		
Titanium	Ti %	0.700 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	490 - 2100
-	-	-	Yield Strength in Mpa	190 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	60 min.
-	-	-	Hardness in HB	215 max.
-	-	-	Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4571	EN	European Union	Tube
1.4571	DIN	Germany	Steel
X6CrNiMoTi17-12-2	AFNOR NF	France	Steel, Bar and Rod
320 S 18	BS	British	Wire
X6CrNiMoTi17 12 2	DIN	Germany	Steel
10Ch17N13M2T	GOST	Russia	Steel
X6CrNiMoTi17 12	UNI	Italy	Steel, Sheet, Plate and Strip and Coil

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