

Material: DIN 1.4547

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4547 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Steel, Bar and Rods

Chemical Composition			Heat Treatment	
Carbon	C %	0.020 max.	Solution Annealing	
Silicon	Si %	0.700 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	19.500 - 20.500		
Molybdenum	Mo %	6.000 - 7.000		
Nickel	Ni %	17.500 - 18.500		
Copper	Cu %	0.500 - 1.000		
Nitrogen	N %	0.180 - 0.250		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	500 - 2100
			Yield Strength in Mpa	300 min.
			Elongation in %	20 min.
			Reduction of Area in %	-
			Hardness in HB	260 max.
			Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
0216-5 EN 1.4547	BS	British	Tube
1.4547	EN	European Union	Steel, Bar and Rod
X1CrNiMoCuN20-18-7	AFNOR NF	France	Steel, Bar and Rod
X1CrNiMoCuN20-18-7	UNI	Italy	Steel, Sheet, Strip and Plate
X1CrNiMoCuN20-18-7	DIN	Germany	Steel, Sheet, Strip and Plate
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