

Material: EN 1.4539

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 1.4539 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 %	2.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	19.000 - 21.000		
Molybdenum	Mo %	4.000 - 5.000		
Nickel	Ni %	24.000 - 26.000		
Copper	Cu %	1.200 - 2.000		
Nitrogen	N %	0.150 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	500 - 2100
-	-	-	Yield Strength in Mpa	220 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	230 max.
-	-	-	Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4539	BS	British	Tube
1.4539	DIN	Germany	Steel, Bar and Rod
X1NiCrMoCu25-20-5	UNI	Italy	Steel, Sheet, Plate and Strip
X1NiCrMoCu25-20-5	AFNOR NF	France	Steel
X1NiCrMoCu25-20-5	DIN	Germany	Steel, Bar and Rod
-	-	-	-
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