

Material: DIN 1.4429

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4429 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 %	0.030 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 %	2.500 - 3.000		
Nickel	Ni %	11.000 - 14.000		
Nitrogen	N %	0.120 - 0.220		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	580 - 940
-	-	-	Yield Strength in Mpa	280 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	55 min.
-	-	-	Hardness in HB	250 max.
-	-	-	Impact in Joule	55 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4429	EN	European Union	Tube
10216-5	BS	British	Steel
X2CrNiMoN17 13 3	DIN	Germany	Steel
X2CrNiMoN17 13 3	UNE	Spain	Steel, Bar, Wire, Rod and Forging
X2CrNiMoN17 13 3E	ISO	International	Steel
X2CrNiMoN17 13 3KKW	ONORM	Australia	Steel and Plate
X2CrNiMoN17 13 3	AFNOR NF	France	Steel, Bar and Rod

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