

Material: UNE X 2 CrNiMoN 17 13 3

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: UNE X 2 CrNiMoN 17 13 3 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Steel, Bar, Wire, Rod and Forging

Chemical Composition		
Carbon	C %	0.030 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	16.500 - 18.500
Molybdenum	Mo %	2.500 - 3.000
Nickel	Ni %	11.500 - 14.500
Nitrogen	N %	0.120 - 0.220
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

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	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4429	EN	European Union	Tube
1.4429	DIN	Germany	Steel
10216-5	BS	British	Steel
X2CrNiMoN17 13 3	DIN	Germany	Steel
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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