

Material: ONORM X 2 CrNiMoN 17 13 3 KKW

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

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

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

Grade Belongs to the Industry: Steel and Plates

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 %	0.025 max.		
Chromium	Cr %	16.500 - 18.500		
Molybdenum	Mo %	2.000 - 2.500		
Nickel	Ni %	11.500 - 14.500		
Nitrogen	N %	0.140 - 0.220		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 580 - 800 Yield Strength in Mpa 295 min. Elongation in % 35 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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-	-	-		
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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 3	UNE	Spain	Steel, Bar, Wire, Rod and Forging
X2CrNiMoN17 13 3E	ISO	International	Steel
X2CrNiMoN17 13 3	AFNOR NF	France	Steel, Bar and Rod

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