

# Material: ONORM X 2 CrNiMoN 17 13 5 KW

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ONORM X 2 CrNiMoN 17 13 5 KW 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		
Carbon	C %	0.030 max.
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 %	4.000 - 5.000
Nickel	Ni %	12.500 - 14.500
Nitrogen	N %	0.120 - 0.220
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	580 - 800
Yield Strength in Mpa	285 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4439	BS	British	Tube
1.4439	DIN	Germany	Steel
1.4439	EN	European Union	Steel
X2CrNiMoN17 13 5	DIN	Germany	Steel
X2CrNiMoN17 13 5	ISO	International	Steel
X2CrNiMoN17-13-5	AFNOR NF	France	Steel, Bar and Rod
X2CrNiMoN17 13	UNE	Spain	Steel, Bar, Wire, Rod and Forging

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