

# Material: ONORM X 6 CrNiMoNb 17 12 2 KKW

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ONORM X 6 CrNiMoNb 17 12 2 KKW 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 %	0.080 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 %	2.000 - 2.500
Nickel	Ni %	10.500 - 13.500
Niobium	Nb %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	510 - 740
Yield Strength in Mpa	215 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4580	EN	European Union	Tube
1.458	DIN	Germany	Steel, Sheet, Plate and Strip
10216-5	BS	British	Steel, Sheet, Plate and Strip
X6CrNiMoNb17 12 2	DIN	Germany	Steel, Sheet, Plate and Strip
X6CrNiMoNb17 12 2	UNE	Spain	Steel, Bar, Wire, Rod and Forging
X6CrNiMoNb17-12-2	AFNOR NF	France	Steel, Bar and Rods
318 S 17	BS	British	Steel and Wire

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