

# Material: BS 10216-5 EN 1.4429

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** BS 10216-5 Seamless Steel Tubes for Pressure Purposes

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

**Belongs to the Industry:** Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	16.500 - 18.500		
Nickel	Ni %	11.000 - 14.000		
Molybdenum	Mo %	2.500 - 3.000		
Nitrogen	N %	0.120 - 0.220		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      580 - 800 Yield Strength in Mpa      295 min. Elongation in %      30 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      60 min. @ -196°C	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4429	EN	European Union	Steel
1.4429	DIN	Germany	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	Austria	Steel and Plate
X2CrNiMoN17 13 3	AFNOR NF	France	Steel, Bar and Rod

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