

# Material: BS 10216-5 EN 1.4571

## 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 %	0.080 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 %	10.500 - 13.500		
Molybdenum	Mo %	2.000 - 2.500		
Titanium	Ti %	5*C - 0.700		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      500 - 730 Yield Strength in Mpa      210 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
1.4571	EN	European Union	Steel
1.4571	DIN	Germany	Steel
X6CrNiMoTi17-12-2	AFNOR NF	France	Steel, Bar and Rod
320 S 18	BS	British	Wire
X6CrNiMoTi17 12 2	DIN	Germany	Steel
10Ch17N13M2T	GOST	Russia	Steel
X6CrNiMoTi17 12	UNI	Italy	Steel, Sheet, Plate and Strip and Coil

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