

## Material: BS 10216-2 EN 1.0471

### Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** BS 10216-2 Seamless Steel Tubes for Pressure Purposes

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

**Belongs to the Industry:** Steel and Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.220 max.	Normalising Forming	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	1.000 - 1.500		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Aluminium	Al %	0.060 max.		
Niobium	Nb %	0.015 - 0.100		
Copper	Cu %	0.300 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	500 - 650
-	-	-	Yield Strength in Mpa	355 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	27 min. @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.0471	EN	European Union	Steel and Tube
1.0471	DIN	Germany	Steel and Tube
1522	AISI	USA	Forging, Rolling, Bar and Tube
150 M 19	BS	British	Steel and Tube
G15220	UNS	USA	Forging, Rolling, Bar and Tube
SMn21	JIS	Japan	Forging and Rolling
21 Mn Si 5	DIN	Germany	Steel and Tube

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