

Material: EN 1.0471

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: EN 1.0471 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.	Normalizing Forming	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	1.000 - 1.500		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.010 max.		
Aluminium	Al %	0.060 max.		
Copper	Cu %	0.300 max.		
Niobium	Nb %	0.015 - 0.100		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	500 - 650
-	-	-	Yield Strength in Mpa	335 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	27 J @ 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
150M19	BS	British	Steel and Tube
G15220	UNS	USA	Forging, Rolling, Bar and Tube
SMn21	JIS	Japan	Forging and Rolling
21MnSi5	DIN	Germany	Steel and Tube

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