

Material: DIN 1.0471

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: DIN 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		
Carbon	C %	0.220 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing Forming

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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