

Material: JIS SMn 21

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: JIS SMn 21 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Forging and Rolling

Chemical Composition			Heat Treatment	
Carbon	C %	0.170 - 0.230	Normalizing Forming	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	1.200 - 1.500		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	0.350 max.		
Nickel	Ni %	0.250 max.		
Copper	Cu %	0.300 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	510 - 850
-	-	-	Yield Strength in Mpa	295 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	146 - 255
-	-	-	Impact in Joule	35 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
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
21MnSi5	DIN	Germany	Steel and Tube

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