

Material: DIN 21 MnSi 5

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: DIN 21 MnSi 5 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 %	0.180 - 0.240
Silicon	Si %	0.250 - 0.450
Manganese	Mn %	1.100 - 1.400
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Aluminium	Al %	0.025 - 0.050
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing Forming

Mechanical Properties	
Tensile Strength in Mpa	500 - 860
Yield Strength in Mpa	330 min.
Elongation in %	11 min.
Reduction of Area in %	40 min.
Hardness in HB	255 max.
Impact in Joule	-

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
SMn21	JIS	Japan	Forging and Rolling

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