

Material: DIN 1.7779

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: DIN 1.7779 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 %	0.170 - 0.230
Silicon	Si %	0.150 - 0.350
Manganese	Mn %	0.300 - 0.500
Phosphorus	P %	0.025 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	3.000 - 3.300
Nickel	Ni %	0.300 max.
Molybdenum	Mo %	0.500 - 0.600
Aluminium	Al %	0.040 max.
Copper	Cu %	0.300 max.
Vanadium	V %	0.450 - 0.550
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
Quenching + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	686.5 - 882.6
Yield Strength in Mpa	539.4 min.
Elongation in %	12 min.
Reduction of Area in %	-
Hardness in HB	205 - 265
Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.7779	EN	European Union	Steel and Tube
1.7779	DIN	Germany	Steel and Tube
20 CrMoV 13 5	DIN	Germany	Steel and Tube
20 CrMoV 13 5	MSZ	Hungary	Steel
15423	CSN	Czech Republic	Steel
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