



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			Heat Treatment	
Carbon	C %	0.170 - 0.230	Quenching + Tempering	
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	Mechanical Properties	
Iron	Fe %	Balance	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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Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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