

## 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	<b>Mechanical Properties</b> 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	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

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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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)