

# Material: MSZ 20 CrMoV 13 5

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** MSZ 20 CrMoV 13 5 Seamless Steel Tubes for Pressure Purposes

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

**Grade Belongs to the Industry:** Steel

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 %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	3.000 - 3.300		
Molybdenum	Mo %	0.500 - 0.600		
Vanadium	V %	0.450 - 0.550		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	740 - 880
-	-	-	Yield Strength in Mpa	590 min.
-	-	-	Elongation in %	17 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	55 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
1.7779	DIN	Germany	Steel and Tube
20 CrMoV 13 5	DIN	Germany	Steel and Tube
15423	CSN	Czech Republic	Steel
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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)