

# 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		
Carbon	C %	0.170 - 0.230
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Quenching + Tempering

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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