

Material: MSZ KL 10

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: MSZ KL 10 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 %	0.090 - 0.170
Silicon	Si %	0.150 - 0.400
Manganese	Mn %	0.450 - 0.750
Phosphorus	P %	0.035 max.
Sulphur	S %	0.300 max.
Chromium	Cr %	0.500 - 0.750
Molybdenum	Mo %	0.400 - 0.600
Nickel	Ni %	0.035 max.
Vanadium	V %	0.200 - 0.350
Niobium	Nb %	0.010 - 0.060
Copper	Cu %	0.350 max.
Nitrogen	N %	0.015 max.
Titanium	Ti %	0.020 - 0.060
Zirconium	Zr %	0.015 - 0.060
Iron	Fe %	Balance

Heat Treatment
Normalizing + Tempering

Mechanical Properties	
Tensile Strength in Mpa	470 - 660
Yield Strength in Mpa	280 min.
Elongation in %	16 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	50 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.7715	EN	European Union	Steel and Tube
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1.7715	DIN	Germany	Steel and Tube
14MoV63	DIN	Germany	Steel and Tube
13MoCrV6	UNE	Spain	Sheet, Plate and Strip
660-460	BS	British	Sheet and Forging
15128	CSN	Czech Republic	Steel and Tube

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