

## Material: CSN 15 128

### Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** CSN 15128 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 %	0.100 - 0.180	Normalizing + Tempering	
Silicon	Si %	0.150 - 0.400		
Manganese	Mn %	0.450 - 0.700		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.500 - 0.750		
Molybdenum	Mo %	0.400 - 0.600		
Vanadium	V %	0.220 - 0.350		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	450 - 740
-	-	-	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	129 - 223
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.7715	EN	European Union	Steel and Tube
1.7715	EN	European Union	Steel and Tube
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
KL10	MSZ	Hungary	Steel and Tube

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