

# Material: DIN 1.5450

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** DIN 1.5450 Seamless Steel Tubes for Pressure Purposes

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

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.060 - 0.100	Normalizing Forming	
Silicon	Si %	0.100 - 0.350		
Manganese	Mn %	0.600 - 0.800		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	0.200 max.		
Molybdenum	Mo %	0.400 0.500		
Aluminium	Al %	0.060 max.		
Copper	Cu %	0.300 max.		
Titanium	Ti %	0.060 max.		
Boron	B %	0.002 -0.006	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	540 - 690
-	-	-	Yield Strength in Mpa	400 min.
-	-	-	Elongation in %	17 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.5450	EN	European Union	Casting
1.545	EN	European Union	Casting
GS-8MnMo7 4	DIN	Germany	Casting
1.543	DIN	Germany	Casting
1.543	DIN	Germany	Casting
GS-8MnMo7 4	UNI	Italy	Casting
GS-8MnMo7 4	AFNOR NF	France	Casting

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