

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		
Carbon	C %	0.060 - 0.100
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
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing Forming

Mechanical Properties	
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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