

# Material: BS 10216-2 EN 1.5450

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** BS 10216-2 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 %	0.060 - 0.100	Normalising 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	<b>Mechanical Properties</b> 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 min. @ RT	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

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

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