

## Material - DIN 1.4439

## Standard Specification for Seemless Steel Tubes for Pressure Purposes

**Group - Ferrous Stainless Steel Alloys** 

Sub Group - DIN 1.4439 Seemless Steel Tubes for Pressure Purposes

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.	Solution Annealing	
Phosphorus	Р%	0.045 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	16.500 - 18.500		
Molybdenum	Mo %	4.000 - 5.000		
Nickel	Ni %	12.500 - 14.500		
Nitrogen	N %	0.120 - 0.220	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	490 - 800
-	-	-	Yield Strength in Mpa	210 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	130 - 250
-	-	-	Impac <mark>t in Joule</mark>	50 J @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
10216-5 EN 1.4439	BS	British	Tube	
1.4439	EN	European Union	Steel	
X2CrNiMoN17 13 5	DIN	Germany	Steel	
X2CrNiMoN17 13 5	ISO	International	Steel	
X2CrNiMoN17 13 5 KW	ONORM	Australia	Steel	
X2CrNiMoN17-13-5	AFNOR NF	France	Steel, Bar and Rod	
X2CrNiMoN17 13	UNE	Spain	Steel, Bar, Wire, Rod and Forging	

## Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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