



Material - DIN X3CrNiMo17-13-3

Standard Specification for Seemless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - DIN X3CrNiMo17-13-3 Seemless Steel Tubes for Pressure Purposes
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Sheet, Plate and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.	Solution Annealing	
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.500 - 18.500		
Nickel	Ni %	10.500 - 13.000		
Molybdenum	Mo %	2.500 - 3.000		
Nitrogen	N %	0.110 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	500 - 2100
-	-		Yield Strength in Mpa	190 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	60 min.
-	-	-	Hardness in HB	215 max.
-	-	-	Impac <mark>t in Joule</mark>	30 J @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
10216-5 EN 1.4436	BS	British	Tube	
1.4436	DIN	Germany	Steel	
1.4436	EN	European Union	Steel	
X3CrNiMo17 13 3	UNI	Italy	Steel, Sheet, Plate and Strip	
X3CrNiMo17 13 3	AFNOR NF	France	Steel	
316	SAE	USA	Steel, Wire, Bar, Shape and Forging	
X2CrNiMo17 12 3	EN	European Union	Steel, Rod, Bar and Extrusion	

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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