



Material - BS 10216-5 EN X1NiCrMoCu25-20-5

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS 10216-5 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry - Tube

Chemical Composition			Heat Treatment			
Carbon	C %	0.020 max.	Solution Annealing			
Silicon	Si %	0.700 max.				
Manganese	Mn %	2.000 max.				
Phosphorus	P %	0.030 max.				
Sulphur	S %	0.010 max.				
Chromium	Cr %	19.000 - 21.000				
Nickel	Ni %	24.000 - 26.000				
Molybdenum	Mo %	4.000 - 5.000				
Nitrogen	N %	0.150 max.				
Copper	Cu %	1.200 - 2.000				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	520 - 720		
-	-	-	Yield Strength in Mpa	230 min.		
-	-	-	Elongation in %	30 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	-		
-	-	-	Impact in Joule	60 min. @ -196°C		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4539	BS	British	Steel, Bar and Rod
1.4539	DIN	Germany	Steel, Bar and Rod
X1NiCrMoCu25-20-5	UNI	Italy	Steel, Sheet, Plate and Strip
X1NiCrMoCu25-20-5	AFNOR NF	France	Steel
X1NiCrMoCu25-20-5	DIN	Germany	Steel, Bar and Rod
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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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