



Material - AFNOR NF X1NiCrMoCu 25-20-5

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - AFNOR NF X1NiCrMoCu 25-20-5 Seamless 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 %	0.020 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				
Molybdenum	Mo %	4.000 - 5.000				
Nickel	Ni %	24.000 - 26.000				
Copper	Cu %	1.200 - 2.000				
Nitrogen	N %	0.150 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	500 - 2100		
-	-	-	Yield Strength in Mpa	220 min.		
-	-	-	Elongation in %	20 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in HB	230 max.		
-	-	-	Impact in Joule	60 J @ RT		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4539	BS	British	Tube
1.4539	DIN	Germany	Steel, Bar and Rod
1.4539	EN	European Union	Steel, Bar and Rod
X1NiCrMoCu25-20-5	UNI	Italy	Steel, Sheet, Plate and Strip
X1NiCrMoCu25-20-5	DIN	Germany	Steel, Bar and Rod
-	-	-	-
-	-	-	-

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.