



**GRAVITY CAST PVT. LTD.**  
GRAVITY GROUP OF COMPANIES

## Material - AFNOR NF X2CrNiMoCuDIN25-7-4

### Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - AFNOR NF X2CrNiMoCuDIN25-7-4 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 %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	24.000 - 26.000		
Molybdenum	Mo %	3.000 - 4.000		
Nickel	Ni %	6.000 - 8.000		
Tungsten	W %	0.500 - 1.000		
Copper	Cu %	0.500 - 1.000		
Nitrogen	N %	0.200 - 0.300	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	730 - 1000
-	-	-	Yield Strength in Mpa	515 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	310 max.
-	-	-	Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4501	BS	British	Tube
1.4501	EN	European Union	Steel, Sheet, Plate and Strip
1.4501	DIN	Germany	Steel, Sheet, Plate and Strip
X2CrNiMoCuDIN25-7-4	DIN	Germany	Steel, Sheet, Strip and Plate
X2CrNiMoCuDIN25-7-4	UNI	Italy	Steel, Bar and Rod
X2CrNiMoCuDIN25-7-4	EN	European Union	Steel and Tube
-	-	-	-

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

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