



Material - AFNOR NF Z 2 NCDU 31-27

Standard Specification for Seemless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - AFNOR NF Z 2 NCDU 31-27 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 %	0.020 max.		
Silicon	Si %	0.500 max.		
Manganese	Mn %	2.000 max.	Solution Annealing	
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	26.000 - 28.000		
Molybdenum	Mo %	3.000 - 4.000		
Nickel	Ni %	30.000 - 32.000		•
Copper	Cu %	0.700 - 1.500	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	490 - 690
-	-	-	Yield Strength in Mpa	210 min.
-	-	-	Elongation in %	35 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	60 J @ RT

Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
10216-5 EN 1.4563	BS	British	Tube		
1.4563	DIN	Germany	Steel, Plate and Strip		
1.4563	EN	European Union	Steel, Plate and Strip		
X1NiCrMoCu31-27-4	UNI	Italy	Steel, Plate and Strip		
X1NiCrMoCu31-27-4	AFNOR NF	France	Steel		
X1NiCrMoCu31-27-4	DIN	Germany	Steel, Bar and Rod		
X1NiCrMoCu31 27 4	ISO	International	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

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