



## Material - BS 10216-5 EN X1NiCrMoCu31-27-4

### 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 %	26.000 - 28.000		
Nickel	Ni %	30.000 - 32.000		
Molybdenum	Mo %	3.000 - 4.000		
Nitrogen	N %	0.110 max.		
Copper	Cu %	0.700 - 1.500		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa      500 - 750 Yield Strength in Mpa      215 min. Elongation in %      35 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      60 min. @ -196°C	
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-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4563	BS	British	Steel, Plate and Strip
1.4563	DIN	Germany	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	DIN	Germany	Steel, Bar and Rod
Z2NCDU31-27	AFNOR NF	France	Steel

**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)**

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