



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

## Material - BS 10216-5 EN X1CrNi25-21

### 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 %	0.250 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	24.000 - 26.000		
Nickel	Ni %	20.000 - 22.000		
Molybdenum	Mo %	0.200 max.		
Nitrogen	N %	0.110 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      470 - 670 Yield Strength in Mpa      180 min. Elongation in %      40 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      60 min. @ -196°C	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4335	DIN	Germany	Steel
1.4335	BS	British	Steel
X1CrNi25 21	DIN	Germany	Steel, Rolling and Forging
X1CrNi25 21	UNI	Italy	Steel, Sheet, Strip and Plate
X1CrNi25 21	AFNOR NF	France	Steel
X1CrNi25-20	AFNOR NF	France	Steel and Tube
Z1CN25-20	AFNOR NF	France	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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