



## Material - BS 10216-5 EN X7CrNiNb18-10

### 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 %	0.040 - 0.100	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	9.000 - 12.000		
Nitrogen	N %	0.110 max.		
Niobium	Nb %	10*C - 1.200		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      510 - 710 Yield Strength in Mpa      205 min. Elongation in %      30 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      60 min. @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.455	DIN	Germany	Steel
1.455	BS	British	Steel
X6CrNiNb18 10	DIN	Germany	Steel and Tube
X6CrNiNb18 10	ISO	International	Steel, Forging and Bar
X6CrNiNb18 10S	ONORM	Australia	Steel
X6CrNiNb18 10	AFNOR NF	France	Steel, Bar and Rods
Z8CNNb18-10	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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