



## Material - EN X 3 CrNiMoBN 17-13-3

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

Group - Ferrous Stainless Steel Alloys

Sub Group - EN X 3 CrNiMoBN 17-13-3 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 %	0.040 max.	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	16.000 - 18.000		
Molybdenum	Mo %	2.000 - 3.000		
Nickel	Ni %	12.000 - 14.000		
Boron	B %	0.0015 - 0.0050		
Nitrogen	N %	0.100 - 0.180		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa      550 - 780 Yield Strength in Mpa      260 min. Elongation in %      30 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      60 J @ RT	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4910	BS	British	Tube
1.491	DIN	Germany	Steel and Flat
1.491	EN	European Union	Steel and Flat
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-	-	-	-
-	-	-	-
-	-	-	-

**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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