



## Material - BS 10216-5 EN X7CrNiTi18-10

### 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 - 0.080	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 - 13.000		
Nitrogen	N %	0.110 max.		
Titanium	Ti %	5*(C+N) - 0.800		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      510 - 710 Yield Strength in Mpa      190 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
1.494	BS	British	Steel
1.494	DIN	Germany	Steel
08Ch18N10	GOST	Russia	Casting
321	SAE	USA	Steel
1.4541	DIN	Germany	Steel
1.4541	BS	British	Steel
04Ch18N10	GOST	Russia	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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