



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

## Material - AFNOR NF Z 6 CNT 18-10 B

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

Group - Ferrous Stainless Steel Alloys

Sub Group - AFNOR NF Z 6 CNT 18-10 B 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 - 0.080	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	17.500 - 19.000		
Molybdenum	Mo %	0.500 max.		
Nickel	Ni %	9.000 - 11.000		
Titanium	Ti %	0.600 max.		
Aluminium	Al %	0.500 max.		
Boron	B %	0.0015 - 0.0060	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	510 - 710
-	-	-	Yield Strength in Mpa	195 min.
-	-	-	Elongation in %	35 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	45 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4941	BS	British	Tube
1.4941	DIN	Germany	Steel and Flat
1.4941	EN	European Union	Steel and Flat
X6CrNiTiB18-10	EN	European Union	Steel and Flat
-	-	-	-
-	-	-	-
-	-	-	-

**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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