



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

## Material - BS 318 S 17

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

Group - Ferrous Stainless Steel Alloys

Sub Group - BS 318 S 17 Seamless Steel Tubes for Pressure Purposes

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Steel and Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	18.000 - 20.000		
Molybdenum	Mo %	2.000 - 3.000		
Nickel	Ni %	11.000 - 14.000		
Niobium	Nb %	1.000 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      900 max. Yield Strength in Mpa      - Elongation in %      - Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4580	EN	European Union	Tube
1.458	DIN	Germany	Steel, Sheet, Plate and Strip
10216-5	BS	British	Steel, Sheet, Plate and Strip
X6CrNiMoNb17 12 2	DIN	Germany	Steel, Sheet, Plate and Strip
X6CrNiMoNb17 12 2	UNE	Spain	Steel, Bar, Wire, Rod and Forging
X6CrNiMoNb17 12 2 KKW	ONORM	Australia	Steel
X6CrNiMoNb17-12-2	AFNOR NF	France	Steel, Bar and Rods

**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.

**ONE STOP SOLUTION FOR METAL PARTS**