GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10216-5 1.4580 (X6CrNiMoNb17-12-2)

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10216-5 1.4580 (X6CrNiMoNb17-12-2) Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry - Tubing

Chemical Composition		
Carbon	C %	0.080 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	16.500 - 18.500
Molybdenum	Mo %	2.000 - 2.500
Niobium	Nb %	0.010 - 1.000
Nickel	Ni %	10.500 - 13.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	510 - 740
Proof Strength in Mpa	250 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in HRB	-
Impact in Joule	100 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
36016-1 X 6 CrNiMoNb 17 12 2	UNE	Spain	Steel
M 3121 X 6 CrNiMoNb 17 12 2 KKW	ONORM	Austria	Steel
M 3120 X 5 CrNiMoNb 17 12 2 S	ONORM	Austria	Steel
EN 10088-3 X6CrNiMoNb17-12-2	AFNOR NF	France	Steel
EN 10088-3 X6CrNiMoNb17-12-2	AFNOR NF	France	Steel
EN 10088-2 X 6 CrNiMoNb 17 12 2	DIN	Germany	Steel
10272 X 6 CrNiMoNb 17 12 2	EN	European Union	Steel and Bars

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email 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.