GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10272 X6CrNiMoNb17-12-2 I 1.4580

Standard Specification for Stainless Steel Bars for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10272 X6CrNiMoNb17-12-2 I 1.4580 Stainless Steel Bars for Pressure Purposes

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

Grade Belongs to the Industry - Bars

Chemical Composition		
Carbon	C %	0.080 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 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 HBW	230 max.
Impact in Joule	100 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10088-3 X6CrNiMoNb17-12-2	AFNOR NF	France	Steel
M 3121 X 6 CrNiMoNb 17 12 2 KKW	ONORM	Australia	Steel
36016-1 X 6 CrNiMoNb 17 12 2	UNE	Spain	Steel
EN 10088-3 X 6 CrNiMoNb 17 12 2	DIN	Germany	Steel
EN 10088-2 1.4580	DIN	Germany	Steel
10272 X 6 CrNiMoNb 17 12 2	EN	European Union	Steel and Bars
10088-2 1.4580	EN	European Union	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

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