GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10272 X6CrNiNb18-10 I 1.4550

Standard Specification for Stainless Steel Bars for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10272 X6CrNiNb18-10 I 1.4550 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 %	17.000 - 19.000
Niobium	Nb %	0.010 - 1.000
Nickel	Ni %	9.000 - 12.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	510 - 740
Proof Strength in Mpa	240 min.
Elongation in %	40 min.
Reduction of Area in %	-
Hardness in HBW	230 max.
Impact in Joule	40 @ -196˚C

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10088-3 X6CrNiNb18-10	AFNOR NF	France	Steel
EN 10088-1 X6CrNiNb18-10	AFNOR NF	France	Steel
M 3120 X 6 CrNiNb 18 10 S	ONORM	Australia	Steel
EN 10028-7 X 6 CrNiNb 18 10	DIN	Germany	Steel
17458 1.4550	DIN	Germany	Steel and Tubing
10222-5 X 6 CrNiNb 18 10	EN	European Union	Steel and Forging
10222-5 1.4550	EN	European Union	Steel and Forging

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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