GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10088-1 1.4594 (X5CrNiMoCuNb14-5)

Standard Specification for Stainless Steel

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10088-1 1.4594 (X5CrNiMoCuNb14-5) Stainless Steel

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.070 max.
Silicon	Si %	0.700 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	13.000 - 15.000
Molybdenum	Mo %	1.200 - 2.000
Nickel	Ni %	5.000 - 6.000
Copper	Cu %	1.200 - 2.000
Niobium	Nb %	0.150 - 0.600
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or precipitation Hardening

Mechanical Properties	
Tensile Strength in Mpa	-
Proof Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HRB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10088-3 X5CrNiMoCuNb14-5	AFNOR NF	France	Steel
EN 10088-1 X5CrNiMoCuNb14-5	AFNOR NF	France	Steel
EN 10088-1 X5CrNiMoCuNb14-5	DIN	Germany	Steel
EN 10088-3 X5CrNiMoCuNb14-5	DIN	Germany	Steel
EN 10088-1 1.4594	DIN	Germany	Steel
10088-3 X 5 CrNiMoCuNb 14 5	EN	European Union	Steel
10088-3 1.4594	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

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.