GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10088-2 1.4646 (X6CrMnNiCuN18-12-4-2)

Standard Specification for Sheet/Plate and Strip of Corrosion Resisting Steels for General Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10088-2 1.4646 (X6CrMnNiCuN18-12-4-2) Sheet/Plate and Strip of Corrosion Resisting Steels for General Purposes

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

Grade Belongs to the Industry - Plate, Sheet and Strip

Chemical Composition		
Carbon	C %	0.020 - 0.100
Silicon	Si %	1.000 max.
Manganese	Mn %	10.500 - 12.500
Phosphorus	P %	0.050 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	17.000 - 19.000
Molybdenum	Mo %	0.500 max.
Nickel	Ni %	3.500 - 4.500
Nitrogen	N %	0.200 - 0.300
Copper	Cu %	1.500 - 3.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	650 - 850
Proof Strength in Mpa	400 min.
Elongation in %	30 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**
10088-1 1.4646	EN	European Union	Steel
10088-1 X6CrMnNiCuN18-12-4-2	EN	European Union	Steel
S24000	UNS	USA	Steel
J 405 XM-29	SAE	USA	Steel
SA-240 Type XM-29	ASME	USA	Plate, Sheet and Strip
SA-276 XM-29	ASME	USA	Bars and Shapes
A 314 XM-29	ASTM	USA	Bars 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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