GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10088-3 1.4612 (X1CrNiMoAlTi12-11-2)

Standard Specification for Semi-Finished Products, Bars, Rods, Wire, Sections and Bright Products of Corrosion Resistant Steels for General Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10088-3 1.4612 (X1CrNiMoAlTi12-11-2) Semi-Finished Products, Bars, Rods, Wire, Sections and Bright Products of Corrosion Resistant Steels for General Purposes

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

Grade Belongs to the Industry - Bars, Rods and Wire

Chemical Composition		
Carbon	C %	0.015 max.
Silicon	Si %	0.100 max.
Manganese	Mn %	0.100 max.
Phosphorus	P %	0.010 max.
Sulphur	S %	0.005 max.
Chromium	Cr %	11.000 - 12.500
Nickel	Ni %	10.200 - 11.300
Molybdenum	Mo %	1.750 - 2.250
Nitrogen	N %	0.010 max.
Aluminium	Al %	1.350 - 1.750
Titanium	Ti %	0.200 - 0.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing or precipitation Hardening

Mechanical Properties	
Tensile Strength in Mpa	1650 min.
Proof Strength in Mpa	1515 min.
Elongation in %	10 min.
Reduction of Area in %	-
Hardness in HBW	331 max.
Impact in Joule	10 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
10088-1 1.4612	EN	European Union	Steel
10088-1 X1CrNiMoAlTi12-11-2	EN	European Union	Steel
S46500	UNS	USA	Steel
A 564 S46500	ASTM	USA	Bars and Shapes
A 959 S46500	ASTM	USA	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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