GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10222-5 1.4301 (X5CrNi18-10)

Standard Specification for Martensitic, Austenitic and Austenitic-Ferritic Stainless Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10222-5 1.4301 (X5CrNi18-10) Martensitic, Austenitic and Austenitic-Ferritic Stainless Steels

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

Grade Belongs to the Industry - Steel and Forging

Chemical Composition		
Carbon	C %	0.070 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	17.500 - 19.500
Nickel	Ni %	8.000 - 10.500
Nitrogen	N %	0.100 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	500 - 700
Proof Strength in Mpa	230 min.
Elongation in %	45 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	100 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10088-1 X2CrNi18-9	AFNOR NF	France	Steel
EN 10088-2 X2CrNi18-9	AFNOR NF	France	Steel
EN 10088-2 X 2 CrNi 18-9	UNI	Italy	Steel and Casting
EN 10088-3 1.4307	DIN	Germany	Steel
EN 10088-3 X 2 CrNi 18-9	DIN	Germany	Steel
10222-5 1.4307	EN	European Union	Steel
10222-5 X 2 CrNi 18 9	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

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.