GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10272 X5CrNi18-10 I 1.4301

Standard Specification for Stainless Steel Bars for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10272 X5CrNi18-10 I 1.4301 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 %	0.070 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.015 max.
Nitrogen	N %	0.100 max.
Chromium	Cr %	17.500 - 19.500
Nickel	Ni %	8.000 - 10.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	500 - 700
Proof Strength in Mpa	225 min.
Elongation in %	45 min.
Reduction of Area in %	-
Hardness in HBW	215 max.
Impact in Joule	60 @ -196˚C

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10088-3 1.4307	DIN	Germany	Steel
EN 10088-3 X 2 CrNi 18-9	DIN	Germany	Steel
EN 10088-2 X 2 CrNi 18-9	UNI	Italy	Steel
EN 10088-2 X 5 CrNi 18 10	UNI	Italy	Steel and Casting
EN 10088-1 X2CrNi18-9	AFNOR NF	France	Steel
EN 10088-3 X2CrNi18-9	AFNOR NF	France	Steel
10222-5 1.4307	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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