GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10088-3 1.4570 (X6CrNiCuS18-9-2)

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 1.4570 (X6CrNiCuS18-9-2) 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 %	0.080 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.150 - 0.350
Chromium	Cr %	17.000 - 19.000
Nickel	Ni %	8.000 - 10.000
Molybdenum	Mo %	0.600 max.
Nitrogen	N %	0.100 max.
Copper	Cu %	1.400 - 1.800
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	500 - 710
Proof Strength in Mpa	220 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in HBW	215 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10088-3 X 6 CrNiCuS 18-9-2	UNI	Italy	Steel and Casting
EN 10088-1 X6CrNiCuS18-9-2	AFNOR NF	France	Steel
EN 10088-2 X6CrNiCuS18-9-2	AFNOR NF	France	Steel
EN 10088-1 1.4570	DIN	Germany	Steel
EN 10088-3 X6CrNiCuS18-9-2	DIN	Germany	Steel
10088-1 X6CrNiCuS18-9-2	EN	European Union	Steel
10088-1 1.4570	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

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