GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10272 X1NiCrMoCu31-27-4 I 1.4563

Standard Specification for Stainless Steel Bars for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10272 X1NiCrMoCu31-27-4 I 1.4563 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 %	0.020 max.
Silicon	Si %	0.700 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.010 max.
Nitrogen	N %	0.100 max.
Chromium	Cr %	26.000 - 28.000
Copper	Cu %	0.700 - 1.500
Molybdenum	Mo %	3.000 - 4.000
Nickel	Ni %	30.000 - 32.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	500 - 750
Proof Strength in Mpa	250 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in HBW	230 max.
Impact in Joule	60 @ -196˚C

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10088-1 X1NiCrMoCu 31-27-4	AFNOR NF	France	Steel
EN 10088-3 X1NiCrMoCu 31-27-4	AFNOR NF	France	Steel
EN 10088-3 X 1 NiCrMoCu 31-27-4	UNI	Italy	Casting
EN 10088-3 X1NiCrMoCu31-27-4	DIN	Germany	Steel
EN 10088-2 1.4563	DIN	Germany	Steel
10250-4 X 1 NiCrMoCu 31 27 4	EN	European Union	Steel and Forging
10250-4 1.4563	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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