GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10250-4 1.4563 (X1NiCrMoCu31-27-4)

Standard Specification for Open Die Steel Forgings for General Engineering Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10250-4 1.4563 (X1NiCrMoCu31-27-4) Open Die Steel Forgings for General Engineering Purposes

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

Grade Belongs to the Industry - Forging

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 %	0.110 max.
Chromium	Cr %	26.000 - 28.000
Molybdenum	Mo %	3.000 - 4.000
Nickel	Ni %	30.000 - 32.000
Copper	Cu %	0.700 - 1.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	500 - 750
Yield Strength in Mpa	250 min.
Elongation in %	30 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 X1NiCrMoCu31-27-4	AFNOR NF	France	Steel
EN 10088-3 X1NiCrMoCu31-27-4	AFNOR NF	France	Steel
EN 10088-3 X 1 NiCrMoCu 31-27-4	UNI	Italy	Steel and Casting
EN 10088-1 X1NiCrMoCu31-27-4	DIN	Germany	Steel
EN 10028-2 1.4563	DIN	Germany	Steel
10272 X 1 NiCrMoCu 31 27 4	EN	European Union	Steel
10088-2 1.4563	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

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.