GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS ISO 16143-2 X1NiCrMoCu31-27-4 (4563-080-28-I)

Standard Specification for Corrosion-Resistant Semi-Finished Products, Bars, Rods and Sections

Group - Ferrous Stainless Steel Alloys

Sub Group - BS ISO 16143-2 X1NiCrMoCu31-27-4 (4563-080-28-I) Corrosion-Resistant Semi-Finished Products, Bars, Rods and Sections

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

Grade Belongs to the Industry - Bars and Rods

Chemical Composition		
Carbon	C %	0.020 max.
Silicon	Si %	0.750 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	26.000 - 28.000
Molybdenum	Mo %	3.000 - 4.000
Nickel	Ni %	30.000 - 32.000
Nitrogen	N %	0.100 max.
Copper	Cu %	0.700 - 1.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	500 - 750
Proof Strength in Mpa	259 min.
Elongation in %	35 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**
10250-4 1.4563	EN	European Union	Steel and Forging
10028-7 1.4563	EN	European Union	Steel
10088-3 1.4563	EN	European Union	Steel
10272 1.4563	EN	European Union	Steel and Bars
EN 10088-2 1.4563	DIN	Germany	Steel
EN 10088-3 1.4563	DIN	Germany	Steel
EN 10028-7 1.4563	DIN	Germany	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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