GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS ISO 16143-2 X2CrNiMoN17-12-3 (4429-316-53-I)

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

Group - Ferrous Stainless Steel Alloys

Sub Group - BS ISO 16143-2 X2CrNiMoN17-12-3 (4429-316-53-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 %	0.030 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	16.500 - 18.500
Molybdenum	Mo %	2.500 - 3.000
Nickel	Ni %	10.500 - 13.000
Nitrogen	N %	0.120 - 0.220
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	580 - 800
Proof Strength in Mpa	315 min.
Elongation in %	40 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	100 @ RT

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
10250-4 1.4401	EN	European Union	Steel and Forging
10270-3 1.4401	EN	European Union	Steel and Wire
10250-4 1.4404	EN	European Union	Steel and Forging
10028-7 1.4404	EN	European Union	Steel
1654-5 1.4401	DIN	Germany	Steel
3059-2 316 S 51	B.S.	United Kingdom	Steel and Tubing
3605-1 316 S 51	B.S.	United Kingdom	Steel and Tubing

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.