



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 4131 NiCu29Mn1Si3Fe

Standard Specification for Nickel Copper Alloy Castings

Group - Non-Ferrous Nickel Alloys

Sub Group - IS 4131 NiCu29Mn1Si3Fe Nickel Copper Alloy Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.120 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	2.500 - 3.000		
Manganese	Mn %	0.500 - 1.500		
Sulphur	S %	0.050 max.		
Iron	Fe %	3.000 max.		
Lead	Pb %	0.005 max.		
Other	Ot %	0.500 max.		
Ni + Co	Ni% + Co%	63.000 - 68.000		
Copper	Cu %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	510 min.
-	-	-	Yield Strength in Mpa	279 min.
-	-	-	Elongation in %	8 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HV	185 - 240
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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.

ONE STOP SOLUTION FOR METAL PARTS