



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ISO E Ni 6082

Standard Specification for Nickel and Nickel Alloy Casting

Group - Non-Ferrous Nickel Alloys

Sub Group - ISO E Ni 6082 Nickel and Nickel Alloy Casting

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.800 max.		
Manganese	Mn %	2.000 - 6.000		
Chromium	Cr %	18.000 - 22.000		
Niobium	Nb %	1.500 - 3.000		
Copper	Cu %	0.500 max.		
Iron	Fe %	4.000 max.		
Molybdenum	Mo %	2.000 max.		
Sulphur	S %	0.015 max.		
Titanium	Ti %	0.500 max.		
Other	Ot%	0.500 max.	Mechanical Properties	
Ni + Co	Ni% + Co%	63.000 min.	Tensile Strength in Mpa	600 min.
-	-	-	Yield Strength in Mpa	360 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	60 @RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2.4648	DIN	Germany	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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