



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ISO E Ni 8165

Standard Specification for Nickel and Nickel Alloy Casting

Group - Non-Ferrous Nickel Alloys

Sub Group - ISO E Ni 8165 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 %	0.030 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.700 max.		
Manganese	Mn %	1.000 - 3.000		
Chromium	Cr %	23.000 - 27.000		
Aluminium	Al %	0.100 max.		
Copper	Cu %	1.500 - 3.000		
Iron	Fe %	30.000 max.		
Molybdenum	Mo %	3.500 - 7.500		
Sulphur	S %	0.015 max.		
Titanium	Ti %	1.000 max.		
Other	Ot%	0.500 max.	Mechanical Properties	
Nickel	Ni %	37.000 - 42.000	Tensile Strength in Mpa	550 min.
-	-	-	Yield Strength in Mpa	240 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
2.4652	DIN	International	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