



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - IS 9093 Alloy 2

### Standard Specification for Countersunk Nickel Alloy Rivets for Aircraft

Group - Non-Ferrous Nickel Alloys

Sub Group - IS 9093 Alloy 2 Countersunk Nickel Alloy Rivets for Aircraft

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

Grade Belongs to the Industry - Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 - 0.150	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	18.000 - 21.000		
Copper	Cu %	0.500 max.		
Cobalt	Co %	0.500 max.		
Iron	Fe %	5.000 max.		
Titanium	Ti %	0.200 - 0.600		
Nickel	Ni %	Balance		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	650 min.
-	-	-	Yield Strength in Mpa	450 min.
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto: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**