



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

## Material - BS 2970 MAG 7

**Standard Specification for Magnesium and Magnesium Alloy Ingots and Castings**

**Group - Non-Ferrous Magnesium Alloy**

**Sub Group - BS 2970 Magnesium and Magnesium Alloy Ingots and Castings**

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

**Grade Belongs to the Industry - Ingot and Casting**

Chemical Composition			Heat Treatment	
Aluminium	Al %	7.500 - 9.000	As-Cast or Solution Treated	
Copper	Cu %	0.350 max.		
Iron	Fe %	0.050 max.		
Manganese	Mn %	0.150 - 0.800		
Nickel	Ni %	0.020 max.		
Silicon	Si %	0.400 max.		
Zinc	Zn %	0.300 - 1.500		
Magnesium	Mg %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	125 - 215
-	-	-	Yield Strength in Mpa	80 - 110
-	-	-	Elongation in %	2 - 5
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	50 - 80
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
MgAl8Zn1	ISO	International	Bar and Wire
MgAl8Zn1 Class 2A	JIS	Japan	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](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**