



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM B951 AZ80A

Standard Specification for Codification of Unalloyed Magnesium and Magnesium-Alloys

Group - Non-Ferrous Magnesium Alloy

Sub Group - ASTM B951 Codification of Unalloyed Magnesium and Magnesium-Alloys

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

Grade Belongs to the Industry - Bar and Wire

Chemical Composition			Heat Treatment	
Aluminium	Al %	7.800 - 9.200	As-Cast or Solution Treated or Fully Treated	
Copper	Cu %	0.050 max.		
Iron	Fe %	0.005 max.		
Manganese	Mn %	0.120 - 0.500		
Nickel	Ni %	0.005 max.		
Other	Ot%	0.300 max.		
Silicon	Si %	0.100 max.		
Zinc	Zn %	0.200 - 0.800		
Magnesium	Mg %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	290 - 330
-	-	-	Yield Strength in Mpa	185 - 230
-	-	-	Elongation in %	2 - 9
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Mg-Al8Zn	ISO	International	Bar and Wire
MBD-AZ80	JIS	Japan	Bar and Wire
MS-AZ80	JIS	Japan	Shape
MWD-AZ80	JIS	Japan	Bar and Wire
B107 AZ80A	ASTM	USA	Bar, Rod, Tube and Wire
MB3	KS	Korea	Bar
MgAl8Zn	DIN	Germany	Bar and Wire

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