GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - DIN 1729-1 MgAl8Zn

Standard Specification for Wrought Magnesium Alloys

Group - Non-Ferrous Magnesium Alloy

Sub Group - DIN 1729-1 Wrought Magnesium Alloys

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

Grade Belongs to the Industry - Bar and Wire

Chemical Composition		
Aluminium	Al %	7.800 - 9.200
Copper	Cu %	0.050 max.
Iron	Fe %	0.005 max.
Manganese	Mn %	0.120 - 0.300
Other	Ot%	0.300 max.
Silicon	Si %	0.100 max.
Zinc	Zn %	0.200 - 0.800
Magnesium	Mg %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Solution Treated or Fully Treated

Mechanical Properties	
Tensile Strength in Mpa	270 - 310
Yield Strength in Mpa	195 - 215
Elongation in %	6 - 10
Reduction of Area in %	-
Hardness in HB	60 - 65
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
B951 AZ80A	ASTM	USA	Bar and Wire
MB3	KS	Korea	Bar

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