

## 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

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