

## Material: ASTM B93 AZ92A

### Standard Specification for Magnesium Alloys in Ingot Form for Sand Castings

**Group:** Non-Ferrous Magnesium Alloy

**Sub Group:** ASTM B93 Magnesium Alloys in Ingot Form for Sand Castings

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

**Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	8.500 - 9.500	As-Cast or Solution Treated or Fully Treated	
Copper	Cu %	0.200 max.		
Manganese	Mn %	0.130 - 0.350		
Nickel	Ni %	0.010 max.		
Other	Ot%	0.300 max.		
Silicon	Si %	0.200 max.		
Zinc	Zn %	1.700 - 2.300		
Magnesium	Mg %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 158 - 234 Yield Strength in Mpa 76 - 124 Elongation in % 1 - 6 Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Mg-Al9Zn2	ISO	International	Bar and Wire
MC3	JIS	Japan	Casting
B80 AZ92A	ASTM	USA	Casting
B199 AZ92A	ASTM	USA	Casting
B275 AZ92A	ASTM	USA	Casting
B403 AZ92A	ASTM	USA	Casting
B951 AZ92A	ASTM	USA	Casting

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)