

Material - ASTM B199 AZ92A

Standard Specification for Magnesium-Alloy Permanent Mold Castings

Group - Non-Ferrous Magnesium Alloy

Sub Group - ASTM B199 Magnesium-Alloy Permanent Mold Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	8.300 - 9.700	As-Cast or Solution Treated or Fully Treated	
Copper	Cu %	0.250 max.		
Manganese	Mn %	0.100 - 0.350		
Nickel	Ni %	0.010 max.		
Other	Ot%	0.300 max.		
Silicon	Si %	0.300 max.		
Zinc	Zn %	1.600 - 2.400		
Magnesium	Mg %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 158 - 234 Yield Strength in Mpa 76 - 124 Elongation in % 6 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

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
B93 AZ92A	ASTM	USA	Casting
B275 AZ92A	ASTM	USA	Casting
B403 AZ92A	ASTM	USA	Casting
B951 AZ92A	ASTM	USA	Casting

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.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.