



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

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

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