



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM B93 AS41B

Standard Specification for Magnesium Alloys in Ingot Form for Sand Castings, Permanent Mold Castings and Die Castings

Group - Non-Ferrous Magnesium Alloy

Sub Group - ASTM B93 Magnesium Alloys in Ingot Form for Sand Castings, Permanent Mold Castings and Die Castings

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

Grade Belongs to the Industry - Ingot and Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	3.700 - 4.800	As-Cast	
Beryllium	Be %	0.0005 - 0.0015		
Copper	Cu %	0.015 max.		
Iron	Fe %	0.0035 max.		
Manganese	Mn %	0.350 - 0.600		
Nickel	Ni %	0.001 max.		
Other	Ot%	0.010 max.		
Silicon	Si %	0.600 - 1.400		
Zinc	Zn %	0.100 max.		
Magnesium	Mg %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 170 - 230 Yield Strength in Mpa 110 - 130 Elongation in % 4 - 14 Reduction of Area in % - Hardness in HB 50 - 70 Impact in Joule -	
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-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AS41B	ANSI/AA	USA	Casting
B951 M10413	ASTM	USA	Casting
MD-AS41B	JIS	Japan	Casting
M10413	UNS	USA	Ingot and Casting
MD3B	JIS	Japan	Casting
MD3B	KS	Korea	Casting
MC21310	KS	Korea	Ingot and 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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