

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	-

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

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.