



Material - ASTM B951 M10413

Standard Specification for Codification of Unalloyed Magnesium and Magnesium-Alloys, Cast and Wrought

Group - Non-Ferrous Magnesium Alloy

Sub Group - ASTM B951 Codification of Unalloyed Magnesium and Magnesium-Alloys, Cast and Wrought Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	3.700 - 4.800		
Beryllium	Be %	0.0005 - 0.0015		
Copper	Cu %	0.015 max.	As-Cast	
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.	Mechanical Properties	
Magnesium	Mg %	Balance	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	
B93 AS41B	ASTM	USA	Ingot and 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

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.