

## 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	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
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

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