

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		
Aluminium	Al %	3.700 - 4.800
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	As-Cast

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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