

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

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