

Material: ASTM B403 AZ92A

Standard Specification for Magnesium-Alloy Investment Castings

Group: Non-Ferrous Magnesium Alloy

Sub Group: ASTM B403 Magnesium-Alloy Investment Castings

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

Belongs to the Industry: Casting

Chemical Composition		
Aluminium	Al %	8.300 - 9.700
Copper	Cu %	0.100 max.
Manganese	Mn %	0.350 max.
Nickel	Ni %	0.010 max.
Other	Ot%	0.300 max.
Silicon	Si %	0.300 max.
Zinc	Zn %	1.600 - 2.400
Magnesium	Mg %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Solution Treated or Fully Treated

Mechanical Properties	
Tensile Strength in Mpa	138 - 234
Yield Strength in Mpa	69 - 124
Elongation in %	6 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Mg-Al9Zn2	ISO	International	Bar and Wire
MC3	JIS	Japan	Casting
B80 AZ92A	ASTM	USA	Casting
B93 AZ92A	ASTM	USA	Casting
B199 AZ92A	ASTM	USA	Casting
B275 AZ92A	ASTM	USA	Casting
B951 AZ92A	ASTM	USA	Casting

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