



## Material - ASTM B94 AZ91D

### Standard Specification for Magnesium-Alloy Die Castings

Group - Non-Ferrous Magnesium Alloy

Sub Group - ASTM B95 Magnesium-Alloy Die Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	8.300 - 9.700	As-Cast	
Zinc	Zn %	0.350 - 1.000		
Manganese	Mn %	0.150 - 0.500		
Silicon	Si %	0.100 max.		
Iron	Fe %	0.005 max.		
Copper	Cu %	0.030 max.		
Nickel	Ni %	0.002 max.		
Other	Ot%	0.020 max.		
Magnesium	Mg %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   230 min. Yield Strength in Mpa   160 min. Elongation in %   3 min. Reduction of Area in %   - Hardness in HB   63 min. Impact in Joule   3 min. @RT	
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-	-	-		
-	-	-		
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-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AZ91D	ANSI/AA	USA	Casting
AZ91D	SAE	USA	Casting
M11916	UNS	USA	Casting
B275 AZ91D	ASTM	USA	Casting
B951 AZ91D	ASTM	USA	Casting
B951 M11916	ASTM	USA	Casting
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**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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