

Material: ASTM B951 AZ91D

Standard Specification for Codification of Certain Nonferrous Metals and Alloys, Cast and Wrought

Group: Non-Ferrous Magnesium Alloy

Sub Group: ASTM B951 Codification of Certain Nonferrous Metals and 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 %	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	Mechanical Properties	
-	-	-	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

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AZ91D	ANSI/AA	USA	Casting
AZ91D	SAE	USA	Casting
M11916	UNS	USA	Casting
B94 AZ91D	ASTM	USA	Casting
B275 AZ91D	ASTM	USA	Casting
B951 M11916	ASTM	USA	Casting
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