

Material: ASTM B951 M11916

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	
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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
B94 AZ91D	ASTM	USA	Casting
B275 AZ91D	ASTM	USA	Casting
B951 AZ91D	ASTM	USA	Casting
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