

Material: ANSI/AA AM50A

Specification Standards for Die Castings

Group: Non-Ferrous Magnesium Alloy Sub

Group: ANSI/AA for 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 %	4.400 - 5.400	As-Cast	
Zinc	Zn %	0.220 max.		
Manganese	Mn %	0.260 - 0.600		
Silicon	Si %	0.100 max.		
Iron	Fe %	0.004 max.		
Copper	Cu %	0.010 max.		
Nickel	Ni %	0.002 max.		
Other	Ot%	0.020 max.		
Magnesium	Mg %	Balance		
-	-	-	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	220 min.
			Yield Strength in Mpa	120 min.
			Elongation in %	6 - 10
			Reduction of Area in %	-
			Hardness in BHN	57 min.
			Impact in Joule	9.5 min. @RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN-MB21220	ONORM	Australia	Ingot and Casting
EN-MBMgAl5Mn	ONORM	Australia	Ingot and Casting
EN-MB21220	CSN	Czech Republic	Ingot and Casting
EN-MBMgAl5Mn	CSN	Czech Republic	Ingot and Casting
B94 AM50A	ASTM	USA	Casting
B275 AM50A	ASTM	USA	Casting
B951 AM50A	ASTM	USA	Casting

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