



## Material - ASTM B951 AM50A

### Standard Specification for Magnesium-Alloy Die Castings

Group - Non-Ferrous Magnesium Alloy

Sub Group - ASTM B951 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 %	4.400 - 5.400	As-Cast	
Copper	Cu %	0.010 max.		
Iron	Fe %	0.004 max.		
Manganese	Mn %	0.260 - 0.600		
Nickel	Ni %	0.002 max.		
Other	Ot%	0.020 max.		
Silicon	Si %	0.100 max.		
Zinc	Zn %	0.220 max.		
Magnesium	Mg %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   200 min. Yield Strength in Mpa   110 min. Elongation in %   10 min. Reduction of Area in %   - Hardness in HB   58 min. Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AM50A	ANSI/AA	USA	Casting
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

**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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