



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

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	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS