GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM B94 AM50A

Standard Specification for Magnesium-Alloy Die Castings

Group - Non-Ferrous Magnesium Alloy

Sub Group - ASTM B94 Magnesium-Alloy Die Castings

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

Chemical Composition		
Aluminium	Al %	4.400 - 5.400
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
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
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