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

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

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