



Material - ANSI/AA AE42

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 %	3.400 - 4.600	As-Cast	
Zinc	Zn %	0.220 max.		
Manganese	Mn %	0.250 max.		
Iron	Fe %	0.005 max.		
Copper	Cu %	0.050 max.		
Nickel	Ni %	0.008 max.		
Other	Ot%	0.020 max.		
Magnesium	Mg %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	185 min.
-	-	-	Yield Strength in Mpa	140 min.
-	-	-	Elongation in %	8 - 10
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	57 min.
-	-	-	Impact in Joule	5.8 min. @RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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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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