



Material - ANSI/AA ZA-12

Specification Standards for Die Castings

Group - Non-Ferrous Zinc 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 %	10.500 - 11.500	As-Cast or Aging	
Magnesium	Mg %	0.010 - 0.030		
Copper	Cu %	0.500 - 1.200		
Iron	Fe %	0.075 max.		
Lead	Pb %	0.006 max.		
Cadmium	Cd %	0.006 max.		
Tin	Sn %	0.003 max.		
Zinc	Zn %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	400 min.
-	-	-	Yield Strength in Mpa	310 - 331
-	-	-	Elongation in %	4 - 7
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	95 - 105
-	-	-	Impact in Joule	20 - 37

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B86 ZA12	ASTM	USA	Casting
B240 ZA12	ASTM	USA	Ingot and Casting
ZP1110	ISO	International	Casting
ZP12	ISO	International	Casting
Z35631	UNS	USA	Casting
Z35633	UNS	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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