



## Material - ASTM B86 Zamak 5

### Standard Specification for Zinc and Zinc-Aluminum (ZA) Alloy Foundry and Die Castings

Group - Non-Ferrous Zinc Alloy

Sub Group - ASTM B86 Zinc and Zinc-Aluminum (ZA) Alloy Foundry and 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 %	3.700 - 4.300	As-Cast or Aging	
Cadmium	Cd %	0.004 max.		
Chromium	Cr %	0.020 max.		
Copper	Cu %	0.700 - 1.200		
Iron	Fe %	0.050 max.		
Magnesium	Mg %	0.020 - 0.060		
Manganese	Mn %	0.060 max.		
Nickel	Ni %	0.020 max.		
Lead	Pb %	0.005 max.		
Silicon	Si %	0.035 max.		
Tin	Sn %	0.002 max.	Mechanical Properties	
Titanium	Ti %	0.001 max.	Tensile Strength in Mpa	328 min.
Zinc	Zn %	Balance	Yield Strength in Mpa	228 min.
-	-	-	Elongation in %	7 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	91 min.
-	-	-	Impact in Joule	65 min. @RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Zamak 5	ANSI/AA	USA	Casting
ZP5	ISO	International	Casting
Z33531	UNS	USA	Ingot and Casting
B86 Alloy 5	ASTM	USA	Casting
B86 AC41A	ASTM	USA	Casting
B240 AC41A	ASTM	USA	Ingot and Casting
B240 Zamak 5	ASTM	USA	Ingot and 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](mailto:marketing@gravitycastindia.com)**

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