

Material: ASTM B86 Zamak 3

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 %	0.100 max.		
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	283 min.
Zinc	Zn %	Balance	Yield Strength in Mpa	221 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	82 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Zamak 3	ANSI/AA	USA	Casting
ZP3	ISO	International	Casting
Z33521	UNS	USA	Ingot and Casting
B86 Alloy 3	ASTM	USA	Casting
B86 AG40A	ASTM	USA	Casting
ZnAl4	UNI	Italy	Ingot and Casting
B240 Zamak 3	ASTM	USA	Casting

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