Material: ASTM B86 Alloy 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		
Aluminium	Al %	3.700 - 4.300
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.
Titanium	Ti %	0.001 max.
Zinc	Zn %	Balance
-	-	-
-	-	-

Heat Treatment
As-Cast or Aging

Mechanical Properties	
Tensile Strength in Mpa	283 min.
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 Zamak 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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