

# Material: UNS Z35841

## Standard Specification for Zinc-Aluminum ZA-12 Alloy Casting

**Group:** Non-Ferrous Zinc Alloy

**Sub Group:** UNS Zinc-Aluminum ZA-27 Alloy Casting

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Casting

Chemical Composition		
Aluminium	Al %	25.000 - 28.000
Cadmium	Cd %	0.006 max.
Copper	Cu %	2.000 - 2.500
Iron	Fe %	0.075 max.
Magnesium	Mg %	0.010 - 0.020
Lead	Pb %	0.006 max.
Tin	Sn %	0.003 max.
Zinc	Zn %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Aging

Mechanical Properties	
Tensile Strength in Mpa	310 - 441
Yield Strength in Mpa	257 - 376
Elongation in %	1 - 11
Reduction of Area in %	-
Hardness in HB	94 - 119
Impact in Joule	12.8 - 58 @RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
ZA-27	ANSI/AA	USA	Casting
B86 ZA27	ASTM	USA	Casting
B240 ZA27	ASTM	USA	Ingot and Casting
ZP2720	ISO	International	Casting
ZP27	ISO	International	Casting
-	-	-	-
-	-	-	-

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