

**Composition
of casting alloys used
by DyCast Specialties**

Alloys

Alloy	Zinc	Zinc-Aluminum	
Common Name	Zamak 5 AC41A	ZA-8 B669-84	ZA27

Composition

Copper	.75 to 1.25	.8 to .13	2 to 2.5
Aluminum	3.5 to 4.3	8 to 8.3	25 to 28
Magnesium	.03 to .08	.015 to .03	.01 to .02
Iron (Max)	.100	.100	.075
Lead (Max)	.005	.004	.006
Cadmium (Max)	.004	.003	.006
Tin (Max)	.003	.002	.003
Nickel	-	-	-
Zinc 99.99%+Purity	Remainder	Remainder	Remainder

Casting alloys are durable and have good strength, are light weight, rust proof and corrosion resistant, have excellent current carrying and wear properties, are easily finished by plating or with organic or inorganic finishes, have self-lubricating properties and excellent castability.

ZAMAK 5 – has the highest impact strength of all the zinc based alloys, is approximately 10% higher in tensile strength than Zamak 3.

ZA-8 – has good creep strength. It is also higher in tensile strength than all the Zamak alloys. It also has superior plating and finishing characteristics.

ZA-27 – has a high melting point, the highest strength and the lowest density of the ZA alloys.

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