

DIE CASTING MAGNESIUM ALLOYS DETAIL PARAMETERS

Die cast magnesium alloy is widely used in the automotive industry and various other products, such as steering wheel, steering column, instrument panel, etc. of automobiles, and a large number of magnesium alloy die castings have been used in products such as engine shells of motorcycle parts. At the same time, the research and development of high-performance magnesium alloys has also driven the full application of magnesium products in aerospace, aviation, military, precision machinery, electronics, and 3C products.

Conventional product specifications: AZ91D, AM50A&AM60B, AZ63A

DIE CASTING MANGESIUM ALLOYS CHEMICAL COMPOSITION TABLE

ASTM B93/B 93M	AM50A	AM60B	AZ91D	AZ63A
ISO 16220:2000	Mg Al9Zn1(A)	MgAl6Mn	MgAl5Mn	
En1753:1997	MB 21220	EN-MB21230	EN-MB21220	
Al%	4.5-5.3	5.6-6.4	8.5-9.5	5.5-6.5
Mn%	0.28-0.50	0.26-0.50	0.17-0.40	0.15-0.35
Cu%	0.008MAX	0.008MAX	0.0025MAX	0.0015MAX
Fe%	0.004MAX	0.004MAX	0.004MAX	0.004MAX
Si%	0.05MAX	0.05MAX	0.05MAX	0.05MAX
Zn%	0.20MAX	0.20MAX	0.45-0.90	2.7-3.3
Ni%	0.001MAX	0.001MAX	0.001MAX	0.001MAX
Others each%	0.01MAX	0.01MAX	0.01MAX	
Others total%				0.30MAX
Mg	Balance	Balance	Balance	Balance
<p>Note: In addition to meeting the basic requirements of ASTM and other standards, the composition and product specifications can be controlled according to special needs.</p> <p>2. Other cast magnesium alloys: AM20, AE44</p>				