

Aluminum Die Casting Alloys Compositions

JIS (Japan)	AA (USA)	Si	Cu	Mg	Zn	Fe	Mn	Ni	Sn	Al
ADC 1	A413	11.0~13.0	1.0MAX	0.3MAX	0.5MAX	1.3MAX	0.3MAX	0.5MAX	0.1MAX	BAL
ADC 3	A360	9.0~10.0	0.6MAX	0.4~0.6	0.5MAX	1.3MAX	0.3MAX	0.5MAX	0.1MAX	BAL
ADC 5	A518	0.3MAX	0.2MAX	4.0~8.5	0.1MAX	1.8MAX	0.3MAX	0.1MAX	0.1MAX	BAL
ADC 6	A514	1.0MAX	0.1MAX	2.5~4.0	0.4MAX	0.8MAX	0.4~0.6	0.1MAX	0.1MAX	BAL
ADC 10	A380	7.5~9.5	2.0~4.0	0.3MAX	1.0MAX	1.3MAX	0.5MAX	0.5MAX	0.2MAX	BAL
ADC 12	A383	9.6~12.0	1.5~3.5	0.3MAX	1.0MAX	1.3MAX	0.5MAX	0.5MAX	0.2MAX	BAL
-	A356	6.5~7.5	0.1MAX	0.3~0.45	0.05MAX	0.12MAX	0.05MAX	-	-	BAL

Remark : This specification chart is based on the composition in more common use.

Zinc Die Casting Alloys Compositions

General Designation	ASTM (USA)	Al	Mg	Cu	Fe	Pb	Cd	Sn	Ni	Zn
Zamak 2	AC43A	3.9~4.3	0.025~0.05	2.7~3.3	0.035MAX	0.0040MAX	0.0030MAX	0.015MAX	-	BAL
Zamak 3	AG40A	3.9~4.3	0.03~0.06	0.10MAX	0.035MAX	0.0040MAX	0.0030MAX	0.0015MAX	-	BAL
Zamak 5	AC41A	3.9~4.3	0.03~0.06	0.75~1.1	0.035MAX	0.004MAX	0.003MAX	0.0015MAX	-	BAL
Zamak 7	AG40B	3.9~4.3	0.010~0.02	0.10MAX	0.035MAX	0.0030MAX	0.002MAX	0.001MAX	0.005~0.02	BAL
ZA-8	-	8.2~8.8	0.02~0.03	0.9~1.3	0.035MAX	0.005MAX	0.005MAX	0.002MAX	-	BAL
ZA-12	-	10.8~11.5	0.02~0.03	0.5~1.2	0.005MAX	0.005MAX	0.005MAX	0.002MAX	-	BAL
ZA-27	-	25.5~28.0	0.012~0.02	2.0~2.5	0.070MAX	0.005MAX	0.005MAX	0.002MAX	-	BAL

Remark : This specification chart is based on the composition in more common use.