

Zinc alloy

PRIMARY USE

- Automobile and motorcycle parts (including critical safety components such as seat belts)
- Vending machines, lockers, house keys
- Precision machine parts (cell phones, measuring instruments)
- Decorative metal fittings, toys such as miniature cars, etc.

SHAPE / COMPOSITION

Products name		AZC-2	AZC-1	AZC-3
ZAMAK		No.3	No.5	No.2
Form		10kg ingot	10kg ingot	10kg ingot
Chemical composition (%)	Al	3.9-4.3	3.9-4.3	3.9-4.3
	Mg	0.03-0.06	0.03-0.06	0.03-0.06
	Cu	≦0.030	0.75-1.25	2.85-3.35
	Fe	≦0.035	≦0.035	≦0.020
	Pb	≦0.003	≦0.003	≦0.003
	Cd	≦0.002	≦0.002	≦0.001
	Sn	≦0.001	≦0.001	≦0.001
Standard	Zn	Rest	Rest	Rest
	JIS	H2201	H2201	-
	ASTM (equevalent)	B240	B240	B240

※ For grade adjustment within the standard grade is acceptable. More detail, please contact us.

MECHANICAL AND PHISICAL PROPERTIES

Products name		AZC-2	AZC-1	AZC-3
Mechanical properties	Ultimate tensile strength (MPa)	289-304	334-350	375-398
	Elongation (%)	4-12	4-8	6-16
	Young's modulus (GPa)	91	87	97
	Charpy impact strength (J/cm ²)	123-144	130-144	123-155
	Fatigue strength (5×10 ⁴ cycles MPa)	134	157	157
	Hardness (Hv)	101-115	130-150	156-173
	Tensile yield strength 0.2% offset (MPa)	186	191	194
Phisical properties	Density (kg/m ³)	6591	6592	6687
	Electrical conductivity (%IACS)	28	26	25
	Thermal expansion coefficient (×10 ⁻⁶ K ⁻¹)	28	29	28
	Melting range (°C)	386-381	390-377	394-375
	Thermal conductivity (W/m · K)	98	95	105
	Specific heat (J/kg · K)	402	413	412
Fluidity (430°C (mm))	349	262	241	

PACKING STYLE



WEIGHT

Ingot weight	10.5 kg / ingot
Ingots per bundle	100 ingots / bundle
Total volume	1,050 kg±50kg / bundle

ABOUT OTHER ZINC ALLOY

We import and sell zinc alloys manufactured by other company of DOWA Group in Japan. If you are looking for zinc alloys other than those mentioned above, please contact us via the below contact detail or our website.

SALES & MANUFACTURING

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