

Magnesium Alloy Ingots for Die Castings

KES

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1. Scope of Application

This standard specifies magnesium alloy ingots for die castings (hereinafter referred to as "ingots").

2. Type and Symbol

Ingots shall be one type like Table 1, and the type shall be divided into A and B based on the allowable limit of impurities.

Table 1

Type		Symbols	Referance
			Name of the similar alloys
Type 1	A	MgDCI 1A	ASTM AZ 91A
	B	MgDCI 1B	ASTM AZ 91B

3. Quality

- (1) Ingots shall be consistent in quality and shall not have any dirts, solvent or other foreign materials that may cause harm in use.
- (2) Their chemical components shall conform to Table 2.

Table 2

Type		Chemical Components %						
		Al	Zn	Mn	Si	Cu	Ni	Mg
Type 1	A	8.5~9.5	0.45~0.9	0.15 or more	0.20 or less	0.08 or less	0.01 or less	Residue
	B	8.5~9.5	0.45~0.9	0.15 or more	0.30 or less	0.25 or less	0.01 or less	Residue

Remarks

1. In case it is acknowledged that ingots contain harmful impurities other than those specified in this table, the allowable limit of impurities may be determined under the agreement between the parties concerned.
2. In case additional elements other than those specified in this table are required, the range of the components can be determined under the agreement between the parties concerned.