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Aluminum Alloy Base Metal for Die Casting

KES

KES B-F010

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1. Scope of Application

This standard specifies aluminum alloy base metal for die casting (hereinafter referred to as "ingots").

2. Type

Ingots shall be classified into 6 types according to the chemical composition as shown in Attached Table.

3. Manufacturing Method

The purity level of the aluminum used as raw material for manufacturing ingots shall be class 2 (A1 99.5% or more) or higher as specified in KS D 2304 (Aluminum base metal).

4. Quality

4.1 Ingots shall be consistent in quality, have the clean surface and be free of any solvent or foreign materials that may cause harm in use.

4.2 Chemical composition shall conform to Attached Table.

5. Test

Chemical composition analysis test shall conform to the following standards.

KES T-M022 (Composition Analysis Method in Aluminum and Aluminum Alloy)

KES T-M069 (Photo-electric Photometry Luminescent Specturm Analysis Method of Aluminum and Aluminum Alloy)

6. Inspection

6.1 In case of sampling at the time of pouring ingots into a mold, take three or more of the samples for each melting. Attention shall be paid to the mold shape and size and the pouring time so that the samples are of the same quality as ingots. In case of sampling analysis test samples from ingots, choose three or more of the ingots per melting number indicated on the ingots.

6.2 Ingots shall be tested in accordance with 5 and shall meet the standard of 4.

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