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Aluminum Alloy Ingot for Casting

KES

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 **KIA MOTORS**

1. Scope of Application

This standard specifies aluminum alloy ingots (hereinafter referred to as "ingots") used for sand mold, shell mold, metallic mold, castings and others.

2. Type and symbol

Classify ingots into 18 types according to the chemical components as shown in Attached Table.

3. Quality

3.1 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.

3.2 Chemical components shall conform to Attached Table.

4. Test

Chemical component analysis test shall conform to the following.

- (1) KES T-M022 (Components Analysis Method in Aluminum and Aluminum Alloy)
- (2) KES T-M069 (Photo-electric Photometry Luminescent Spectrum Analysis Method of Aluminum and Aluminum Alloy)

Analysis method of the elements that are not specified here shall be determined under an agreement between the parties concerned.

5. Inspection

5.1 In case of sampling analysis test sample at the time of pouring ingots into a mold, take three or more of the samples at every dissolution. 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 dissolution number indicated on the ingots.

5.2 Ingots shall be inspected for their appearance, tested according to 4, and meet the standard specified in 3.

5.3 The manufacturer shall submit the analysis test result to Kia.