

KES

Methods for Determining
Fineness of Foundry Sand

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Additional Rule



1. Scope of application

This standard is settled about measuring the distribution of fineness and using the distribution of fineness of foundry sand.

2. Apparatus and tools

- (1) Diameter of the thin sieve is 200mm(Surface object) by KS A5101 (Surface object)
- (2) Rotary type sieve vibrator must be used for the sand separation tool.

3. Method of test

- (1) The test sample, the foundry sand that is tested by clay powder must be used for the test sample.
- (2) Measure the weight of the test sample as 50g.
- (3) Put the test sample down the top of the sieve and then, close the door, after putting together the standard model as the size of section.
- (4) Put together to the sand separation tool and divide for 15 minutes.
- (5) After dividing, calculate the weight of the separated standard model as the test sample of the type of section.

$$\text{Fineness} = \frac{\text{The sand weight in the sieve(g)}}{\text{The test sample}} \times 100$$

4. Report

- (1) Calculate the test result down to one decimal place by KS A0021 (Rounding off method). Test this value twice times for the same sample, the deviation of the result of the test of fineness must be less than $\pm 5\%$ of the value and then the average value of each fineness.
- (2) The deviation of the fineness of the foundry sand is shown as the weight percentage of each fineness including the clay powder.