

HG

**CHEMICAL INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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Replacing GB/T 1715-1979

Pigments - Determination of residue on sieve

颜料筛余物测定法

(English Translation)

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1 Scope

This method refers to the ratio of the mass of the residue to the mass of the specimen, after the pigment passes through a sieve with a certain aperture, expressed as a percentage.

2 Materials and instruments

2.1

Sieve. Inner diameter 65 mm ~ 70 mm, height 35 mm ~ 40 mm;

Outer diameter 75 mm ~ 80 mm, height 50 mm ~ 55 mm;

2.2

Zhongkai [Translator. medium size] wool pen. Hair length 25 mm~30 mm;

2.5 95% ethanol. Chemically pure.

3.1 Method A. Wet sieving method

Weigh 10 g of the specimen (accurate to 0.01 g); put it into a sieve moistened with ethanol and weighed constant according to the product standard; moisten the specimen with ethanol; hold the upper end of the sieve; immerse the bottom of the sieve in water; gently scrub it with a Zhongkai [Translator. medium size] wool pen, until there are no pigment particles in the water. Rinse it twice with distilled water and once with ethanol.

Finally, place it in a (105 ± 2) °C constant temperature oven for 2 h; quickly take it out and place it in a desiccator to cool it to room temperature; weigh it (accurate to 0.0002 g) until constant weight. The percentage of sieve residue (X) is calculated as follows. Where.