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TEXTILE INDUSTRY STANDARD OF
THE PEOPLE'S REPUBLIC OF CHINA

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**Textiles - Testing and evaluation for anti-soil properties - Soil
release**

纺织品 防污性能的检测和评价 易去污性

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Textiles - Testing and evaluation for anti-soil properties - Soil release

1 Scope

This Standard specifies two test methods - washing method and wiping method, for determining the soil release of textiles. It also provides the evaluation indicators for soil release.

This Standard applies to all kinds of textile fabrics and their products.

Depending on the product type and application, one or both methods can be selected. Test results obtained using different stains and methods are not comparable.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 250, *Textiles -- Tests for colour fastness -- Grey scale for assessing change in color*

GB 1534-2003, *Peanut oil*

GB 3778-2011, *Carbon black for use in rubber products*

GB/T 6529, *Textiles -- Standard atmospheres for conditioning and testing*

GB/T 7568.2, *Textiles -- Tests for colour fastness -- Standard adjacent fabrics -- Part 2: Cotton and viscose*

GB/T 8629-2001, *Textiles -- Domestic washing and drying procedures for textile testing*

GB 11121-2006, *Gasoline engine oils*

GB 18186-2000, *Fermented soy sauce*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

7 Procedures

7.1 Washing method

7.1.1 Place the absorbent filter paper horizontally on the test bench. Take 2 specimens and put on absorbent filter paper respectively. On the 3 parts of each specimen, drop about 0.2 mL (4 drops) of soil liquid respectively. The distance between each part is at least 100 mm.

NOTE: The material of the test bench top is not absorbent.

7.1.2 Cover the plastic film on the soil liquid. Place the plate on the film. Press the hammer again. After $60s \pm 5s$, remove the hammer, plate and film. Continue to place the specimen for $20 \text{ min} \pm 2 \text{ min}$. Choose a contaminated area. Use the gray sample card for discoloration to evaluate the color difference between it and the uncontaminated part. Record it as the initial color difference.

7.1.3 According to the 6A procedure specified in GB/T 8629-2001, wash the two specimens. The addition of ECE standard detergent is $20 \text{ g} \pm 2 \text{ g}$. Lay flat to dry after washing. It shall be ensured that the surface of the specimen is flat and free of wrinkles.

7.1.4 Use the gray sample card for discoloration to evaluate the color difference between the uncontaminated part and the three stained parts of each specimen after washing.

7.2 Wiping method

7.2.1 Place the specimen flat on the absorbent filter paper. Use a pipette to drop about 0.05 mL (1 drop) of the soil liquid into the center of the specimen.

7.2.2 Use a glass rod to evenly spread the droplet in a circular area with a diameter of about 10 mm. For self-diffused droplets, there is no need to spread.

7.2.3 Lay the specimen flat to dry. Use the gray scale card for discoloration to evaluate the color difference between the contaminated part and the uncontaminated part. Record it as the initial color difference.

7.2.4 Wet the cotton standard lining with water. Make its liquid carrying rate $85\% \pm 3\%$.

7.2.5 Wipe the contaminated area vigorously in one direction with a cotton standard pad. The cotton standard lining needs to be changed to another clean place to continue wiping every time it is wiped. Wipe 30 times in total.

7.2.6 Use the gray scale for discoloration to evaluate the color difference between the uncontaminated part and the circular uncontaminated area of the specimen after wiping.

8 Result presentation and evaluation

8.1 Result presentation

Washing method: In the same specimen, if there are 2 or 3 places with the same color difference series, take this series as the series of the specimen. If the three color difference series are not the same, take the median value as the series of the specimen. Take the lower series of the two specimens as the test result of the sample.

Wiping method: Take the color difference between the uncontaminated part of the specimen and the circular stained area of the specimen after wiping as the test result of the sample. If the soil spreads on the fabric with the water during the wiping process, and the area of the soil after the spread is more than twice the contaminated area before wiping, it is directly rated as grade 1. The staining around the rating area or the fading of the specimen due to wiping shall be stated in the test report.

8.2 Evaluation

If necessary, evaluate the soil release of the sample according to the selected test method.

When the initial color difference is equal to or lower than grade 3, and the color difference series of the test result is 3~4 grades and above, the sample is considered to have soil release.

When the initial color difference is equal to or higher than 3~4 grades, and the color difference series of the test result is 0.5 grades or higher than the initial color difference, the sample is considered to have soil release.

NOTE: If there are other agreements between the relevant parties, the evaluation shall be carried out according to the provisions of the agreement.

9 Test report

The report shall contain the followings:

- a) The test is carried out according to this Standard;
- b) The description of sample;
- c) If the specimen has been pretreated by water washing, state the washing method and number of washings used;
- d) The soil used;
- e) The test method used, i.e., washing method or wiping method;

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