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CCS W 04



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 420-2009

Replacing GB/T 420-1990

**Textiles -- Tests for colour fastness -- Colour fastness to wet
scrubbing of pigment printed textiles**

纺织品 色牢度试验 颜料印染纺织品耐刷洗色牢度

(English Translation)

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Foreword

This revised standard adopts ISO 105-C07.1999 "Textiles Tests for color fastness Part C07. scrub resistant textile pigment printing Color fastness "(in English).

This standard is based on ISO 105-C07.1999 redrafted, with ISO 105-C07.1999 main differences are as follows.

- Normative references in international standards replace the corresponding national standards;
- Increased balance, soap or detergent solution and heating apparatus;
- The Chapter 6 of each section is striped description;
- For excessive use of the brush will be described as a Note content.

This standard replaces GB/T 420-1990 "Test for color fastness of textiles scrub resistance." this standard compared with GB/T 420-1990, the main changes are as follows.

- The standard name was changed to "textile color fastness pigment printing and dyeing textile color fastness scrub resistance";
- Increased balance, as well as soap or detergent solution requires heating apparatus;
- Fiber brush height to 15mm;
- Increased its nylon yarn requirements;
- Increasing the test temperature selection;
- The contents of Appendix A merger with the text deleted Appendix B.

The standard proposed by China Textile Industry Association.

This standard by the National Standardization Technical Committee on Basic Standards Subcommittee Textiles (SAC/TC209/SC1) centralized.

This standard is mainly drafted by. Emerging Technology Institute Vocational production equipment.

1 Scope

This standard describes a test method for resistance to brushing color fastness pigments dyed or printed textiles.

This standard does not apply to bulk fiber.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 250 textile color fastness test assessing change in color like the gray card (GB/T 250-2008, ISO 105-A02.1993, IDT) GB/T 3921-2008 Textiles Tests for color fastness soaping color fastness (ISO 105-C10.2006, MOD) GB/T 6151-1997 Textiles Tests for color fastness General (eqv ISO 105-A01.1994) GB/T 12490-2007 Textiles Tests for color fastness Colour fastness to domestic and commercial laundering (ISO 105-C06.1994, MOD) Principle 3 After the sample was immersed in soap or detergent, scrub predetermined time, and then rinse and dry. Gray color sample card sample assessment degree.

4 Equipment and Materials

4.1

Test Apparatus. pressure along a straight line $100\text{mm} \pm 10\text{mm}$ reciprocating brushing device is applied to the sample was $9\text{N} \pm 0.2\text{N}$, about Complete reciprocating cycle per second, which should be sufficient clamping plate size not less than $80\text{mm} \times 250\text{mm}$ sample.

4.2

Brush. made up of five rows, each 13 or 14 clusters of nylon fibers. Each cluster has a 0.36mm nylon filament having a diameter of 16 , a height 15mm , the cluster and the cluster spacing of 4mm , brushing width $55\text{mm} \pm 2\text{mm}$. And other brush similar to the above also allows consultation by the relevant parties Use, the use of a special type of brush should be stated in the report.

The new brushes should be sanded before use (see Note 2) grinding brush back and forth at least 100 cycles, its surface passivation.

Note 1: It is recommended to use the following specifications nylon filament nylon brush composition.

(Silk) line density. 93D (Brush) bearing capacity. 2.44kg (Cong) pull force. 14.2N (Silk) pull force. 0.8N

Note 2: 120 mesh (# 0) black aluminum oxide sandpaper has been shown to be suitable for testing. If you use other sandpaper, it should be described in the test report.

4.3

soap, non-fluorescent brighteners, in line with GB/T 3921-2008 5.1 requirements.

4.4

sodium perborate.

4.5

standard detergent.

At least be able to use two standard detergent.

a) ECE standard detergent 77, free of optical brighteners, or