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FZ

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

FZ/T 75002-2014

Replacing FZ/T 75002-1993

**Coated fabrics. Light accelerated ageing tests. Xenon-arc
method**

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

Instead of the standard FZ/T 75002-1993 "coated fabric light xenon arc accelerated aging test method." This standard FZ/T 75002-1993 compared to the main differences are as follows.

- Xenon arc method to increase the range and performance of aging changes in exposure assessment instructions;
- Normative references increased by GB/T 8427, GB 8432 and removed the GB 11189.1;
- Chapter 4, Part equipment modified to "in line with GB/T 8427 requirements," adds "Radiometer" "covering" "Sample holder", modify the blue wool standard as 6, delete the original climate control standard 4.3 and 4.5 standard exposure conditions;
- Chapter 5, delete the original 5.1 standard testing and production interval and related content;
- Chapter 6 of the original standard uses a blue wool standard level 5 is amended as six blue wool standards, modifications to refine 6.2 Exposure Test when the method, a clear exposure test temperature and humidity conditions, the original standard adopted in Appendix A to control the amount of radiation exposure meter test termination Between the approaches in Chapter 6;
- Increased Chapter 7 folding properties, wear resistance testing and evaluation methods;
- Remove Appendix A.

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 drafting of the main unit. Fiber Inspection Bureau of Fujian Province, China Textile Standard (Beijing) Inspection and Certification Center Co., Ltd., Fujian Arima-Textile

Co., Ltd. Guan Hong.

1 Scope

This standard specifies the test methods for coating fabrics xenon arc exposure method of aging and compare performance before and after aging change.

This standard applies to all types of coated fabrics.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 250 textile color fastness test assessing change in color like the gray card GB/T 730 Textiles Tests for color fastness Blue wool standards (1-7) level of quality control GB/T 8427 Textiles Tests for color fastness Colour fastness to artificial light. Xenon arc Principle 3 Xenon arc lamp as a light source, simulate and strengthen the artificial light and the temperature, humidity and other environmental factors of aging, the sample is exposed to the environment Period of time to accelerate the coated fabric of photoaging, to compare performance before and after the exposure changes.

4 Equipment and Materials

4.1

xenon arc lamp apparatus, the temperature sensor should be consistent with GB/T 8427 requirements of.

4.2

radiometer to measure the amount of radiation exposure wavelength of 420nm. The accuracy of the meter is not the intensity of light and ambient temperature the impact of changes.

To automatically maintain a constant irradiance values in terms of radiometers, should be given equal time equivalent radiation exposure, according to equation (1) is obtained.

$$H = E3.6t \quad (1)$$

Where.

H --- the amount of radiation exposure in units of kilojoules per square meter (kJ/m²);

E --- irradiance in watts per square meter (W/m²);

T --- time in hours (H);

3.6 --- conversion constant.

It can be set with a countdown integrator filter radiometers in kJ/m² as a unit for use with exposure apparatus, when the sample reaches the pre the test was terminated when the exposure value set in advance.

Covering 4.3 for opaque materials, such as thin aluminum or cardboard covered with aluminum foil, used as part of standard blue wool covering.

4.4

blue wool standards, adopted GB/T 730 6 blue wool standard.

4.5

Evaluation of color like the gray card should comply with GB/T 250 requirements.

4.6

sample holder, the sample size should be placed to meet the performance test method specified size.