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

FZ/T 50034-2016

**Elastane filament yarns - Test method for chlorine resistant
performance**

氨纶长丝 耐氯性能试验方法 清晰版

(English Translation)

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Foreword

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

This standard is modified using ISO 17608.:2015 "Textile bare rubber fiber resistance to chlorinated water (swimming pool water) performance test".

The main differences between this standard and ISO 17608.:2015 are as follows.

- the normative reference document in the international standard replaced by the corresponding national standards;
- the normative reference documents to increase the relevant national standards and industry standards;
- Terminology and definition of the definition of elastic fibers to be replaced by GB/T 4146.1 "Textiles Chemical fibers Part 1.

Name ";

- a detailed description of the instrument and utensil to cancel the isokinetic elongation strength machine, instead of referring to the FZ/T 50006 "spandex Tensile properties test method ";
- Increased sampling requirements in the test general;
- a detailed description of the elimination of the rupture test in the test procedure, instead of quoting the FZ/T 50006 "spandex yarn tensile test method".

This standard is proposed by China Textile Industry Federation.

This standard is under the jurisdiction of Shanghai Textile Industry Technical Supervision.

The drafting of this standard. Zhejiang Huafeng Spandex Co., Ltd., Shanghai Textile

Industry Technical Supervision, Jiangsu Shuangliang Spandex Co., Ltd.

Division, Yantai Taihe New Materials Co., Ltd., Changle Hengshen Fiber Technology Co., Ltd., Hangzhou Banglian Spandex Co., Ltd., Xinxiang Chemical Fiber Co., Ltd., Hangzhou Yi Bang Spandex Co., Ltd., China Chemical Fiber Industry Association.

1 Scope

This standard specifies the test method for the chlorine resistance of spandex filaments.

This standard applies to non-coated spandex filaments.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article. For undated references, the latest edition (including all modifications) applies to this document.

Textiles - Chemical fibers - Part 1. Generic names GB/T Textiles - Chemical fibers - Part 3. Test terminology GB/T GB/T 6502 Chemical fiber filament sampling method GB/T 6529 Standard atmosphere for textiles for humidity control and testing GB/T 6682 Analytical laboratory water specifications and test methods Representation and Judgment of Numerical Correction Rule and Limit Value of GB/T 8170 Test method for tensile properties of FZ/T 50006 spandex yarns

3 Terms and definitions

The following definitions and definitions as defined in GB/T 4146.1 and GB/T 4146.3 apply to this document.

Breaking strength retention the ratio of the breaking strength after the treatment under specified conditions to the breaking strength before treatment is expressed as a percentage.

4 Principle

Uncoated spandex filament in a certain concentration of chlorine solution after immersion, by the impact of active chlorine, fiber physical properties have changed.

The strong retention rate of spandex filament is used to characterize the chlorine resistance of spandex filament.

5.1 Mechanical devices

A suitable mechanism consists of a water bath with a rotating shaft. Rotation axis is radially supported by more than the capacity of about 550mL $\pm$ 50mL, 75mm $\pm$ 5mm in diameter,

high $125\text{mm} \pm 10\text{mm}$ stainless steel containers, can be sealed to seal. Rotate the distance from the center of the shaft to the bottom of the container is $45\text{ mm} \pm 10\text{ mm}$. Rotation axis and container assembly speed of $40\text{r/min} \pm 2\text{r/min}$. Water bath temperature Degrees controlled by the thermostat, keep the set temperature within $\pm 2\text{ }^{\circ}\text{C}$.

Note: Other devices that can achieve the same effect can also be used.