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

SN/T 1690.1-2012

Replacing SN/T 1690.1-2005

**Analysis of new type textile fibre component. Part 1:
Determination of soybean protein composite fibre. Nitric acid**

新型纺织纤维成分分析方法 第1部分：大豆蛋白复合纤维含量的测定 硝酸法
(English Translation)

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Foreword

This is Part 1 SN/T 1690 "new textile fiber component analysis" series of standards.

This section prepared in accordance with GB/T 1.1-2009 given rules.

The partial replacement of SN/T 1690.1-2005 "new textile fiber component analysis - Part 1 soybean protein fiber." this section compared with the SN/T 1690.1-2005, in addition to editorial changes, the major technical changes are as follows.

--- Modify the standard name, the standard name will be changed to "new textile fiber composition analysis methods - Part 1 soybean protein fiber Determination of nitrate content dimension Law";

--- Remove the content of soybean protein fiber and silk, wool or other animal fibers blended product of 3% sodium hydroxide analysis method (See the 2005 version of Chapter 5);

--- Remove the soybean protein fiber and polyurethane fibers, polyacrylonitrile fibers, modacrylic fibers and fiber blends chlorine production Content of the analytical dimethylformamide (DMF) method (see Chapter 6 of the 2005 edition);

--- Remove the soybean protein fiber and polyester fiber blends content analysis of 75% (mass fraction) sulfuric acid method (see 2005 edition Chapter 7);

--- Remove the soybean protein fiber and cotton, ramie, linen blends content analysis of formic acid/zinc chloride method (Method 1) (see 2005 Version 8.1);

--- Remove the soybean protein fiber and cotton, ramie, linen blend content analysis of the product by 20% (mass fraction) of hydrochloric acid method (Method 2) (See the 2005 version 8.2);

--- Remove the viscose fiber and soy protein content and high wet modulus fibers (modal fiber) blends of analysis of 20% (by mass Score) hydrochloric acid method (see the 2005 edition, Chapter 9);

--- Increased soybean protein fiber and cotton, polyester, polyacrylonitrile fiber, modacrylic

fiber, viscose fiber blended products Determination of nitric acid method.

--- Removed in Appendices A and B.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

1 Scope

SN/T 1690 provisions of this part of the measuring method using nitric acid to remove non-fibrous material after the soybean protein fiber (polyvinyl alcohol A two-component mixture composite) and cotton, polyester fibers, polyacrylonitrile fibers, modacrylic fiber, viscose fiber, soybean protein fiber complex the method of dimensional content.

This section applies to substances unless fibers of soy protein fiber (with a polyvinyl compound) and cotton, polyester fibers, polyacrylonitrile Determination of soybean protein fiber content of the mixture of fiber, modacrylic fiber, viscose fiber and other two components.

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 2910.1-2009 Textiles - Quantitative chemical analysis - Part 1. General principles of testing Laboratory use specifications and test methods GB/T 6682 Analysis GB/T 8170 repair value expressed about the rules and limit values and judgment 01057 (all parts) FZ/T Test method for identification of textile fibers Principle 3 with 2.3 (volume fraction) solution of nitric acid from the mixture of soybean protein fiber known dry mass of dissolved and removed, collect residual Objects, cleaning, drying and weighing, calculating its share of the dry mass of the mixture with a percentage by mass after correction obtained by the difference of soybean protein fiber Dimension percentage.

4 Reagents

Unless otherwise indicated, the reagents used were of analytical grade. Water for the three water GB/T 6682 regulations.

Concentrated nitric acid 4.1. 20 °C density of 1.40g/mL.

Concentrated ammonia 4.2. 20 °C density 0.880g/mL.

4.3 2.3 (volume fraction) nitric acid solution. A 400mL of concentrated nitric acid (4.1) slowly added 600mL of distilled water, and mix well.

4.4

dilute nitric acid solution. A 10mL concentrated nitric acid (4.1) slowly added 900mL of distilled water, and mix well.

4.5

dilute ammonia solution. 100mL concentrated aqueous ammonia (4.2) diluted with distilled water to a total volume of 1L, and mix well.