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

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**Textiles-Quantitative chemical analysis-Mixtures of
polyacrylonitrile preoxidized fiber and certain other fibers**

纺织品 定量化学分析 聚丙烯腈预氧化纤维与某些其他纤维的混合物

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China National Textile and Apparel Council.

This document is under the jurisdiction of the National Technical Committee on Standardization of Textiles (SAC/TC 209).

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Quantitative Chemical Analysis of Textiles Polyacrylonitrile pre-oxidized fibers and some other fibers mixture

1 Scope

This document describes the chemical analysis method for the determination of the composition of polyacrylonitrile preoxidized fibers and certain other fibers after removal of non-fibrous matter.

Method for fiber content in mixture.

This document is applicable to polyacrylonitrile pre-oxidized fibers and animal fibers (sheep wool, mulberry silk), cellulose fibers (cotton, linen, lyocell), Modal, Viscose, Acetate, Triacetate, Polyester, Polyamide, Polyacrylonitrile, Polyethylene Fiber, polypropylene fiber, polylactic acid fiber, polyamide fiber, polyurethane elastic fiber, polyvinyl formal fiber, polyarylate fiber, Meta-aromatic polyamide fiber, para-aromatic polyamide fiber, polyarylene? diazole fiber, polytetrafluoroethylene fiber, polyimide fiber, A two-component mixture of aramid fiber, carbon fiber and polyphenylene sulfide fiber.

Note. The identification test method of polyacrylonitrile pre-oxidized fiber is shown in Appendix A.

2 Normative references

GB/T 2910.1

GB/T 2910.4

GB/T 2910.10

GB/T 2910.14

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Polyacrylonitrile preoxidized fiber

The polyacrylonitrile raw yarn is oxidized by air at a certain temperature to form a heat-resistant ladder-shaped black fiber.

Note. It is an intermediate for preparing polyacrylonitrile-based carbon fibers.

4 A mixture of polyacrylonitrile pre-oxidized fiber and animal fiber (sodium hypochlorite method)

The principles, reagents, equipment, test procedures, calculation and expression of results involved shall be in accordance with GB/T 2910.4.

The correction factor (d value) for the mass change of oxidized fibers is 1.02.