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NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA

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**GB/T 37629-2019**

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**Textiles – Quantitative Chemical Analysis – Mixtures  
of Acrylic with Certain Other Fibers (Method Using  
Formic Acid and Zinc Chloride)**

纺织品 定量化学分析

聚丙烯腈纤维与某些其他纤维的混合物（甲酸/氯化锌法）

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Standardization Administration of PRC.**

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## Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard was proposed by China National Textile and Apparel Council.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Textiles (SAC/TC 209).

Drafting organizations of this Standard: Chinatesta Textile Testing & Certification Services Co., Ltd.; Henan Province Feather and Down Product Quality Supervision and Inspection Center; Anhui Red Love Industrial Co., Ltd.; Fujian Changgeng New Materials Co., Ltd.; Changle Yongyi Knitting & Textile Co., Ltd.; and Harbin Institute of Product Quality Supervision and Inspection.

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# **Textiles – Quantitative Chemical Analysis – Mixtures of Acrylic with Certain Other Fibers (Method Using Formic Acid and Zinc Chloride)**

**WARNING:** Personnel using this Standard shall have hands-on working experience in formal laboratory. This Standard does not address all possible safety issues; the users are responsible for taking appropriate safety and health measures and ensuing compliance with the relevant national regulations.

## **1 Scope**

This Standard specifies the method for determining the fiber content in the mixtures of polyacrylonitrile fiber with certain other fibers after removing the non-fibrous materials by the formic acid/zinc chloride method.

This Standard is applicable to the binary mixtures of polyacrylonitrile fiber with wool, other animal fur fibers, cotton, linen, ramie and polyester fibers.

## **2 Normative References**

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 2910.1 Textiles - Quantitative Chemical Analysis - Part 1: General Principles of Testing

## **3 Principles**

Use the formic acid/zinc chloride solution to dissolve and remove the polyacrylonitrile fiber from the mixture with known dry mass; collect the residue; clean, dry, and weigh it; calculate the percentage of the corrected mass accounting for the dry mass of the mixtures. Then calculate the mass percentage of the polyacrylonitrile fiber from the difference.

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