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NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

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GB/T 2910.17-2009 / ISO 1833-17:2006

Partially replacing GB/T 2910-1997

Textiles - Quantitative chemical analysis - Part 17: Mixtures of chlorofibers (homopolymers of vinyl chloride) and certain other fibers (method using sulfuric acid)

纺织品 定量化学分析 第 17 部分：含氯纤维（氯乙烯均聚物）与某些其他纤维的混合物（硫酸法）

(ISO 1833-17:2006, IDT)

Issued on: June 15, 2009 **Implemented on: January 01, 2010**

Issued by: General Administration of Quality Supervision, Inspection and Quarantine of PRC;

National Standardization Administration.

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Foreword

GB/T 2910 "Textiles - Quantitative Chemical Analysis" includes the following parts:

- Part 1: General principles of testing;
- Part 2: Ternary fiber mixture;
- Part 3: Mixtures of acetate and certain other fibres (method using acetone);
- Part 4: Mixtures of certain protein and certain other fibers (method using hypochlorite);
- Part 5: Mixtures of viscose, cupro or modal and cotton fibres (method using sodium zincate);
- Part 6: Mixtures of viscose or certain types of cupro or modal or lyocell and cotton fibres (method using formic acid and zinc chloride);
- Part 7: Mixtures of polyamide and certain other fibres (method using formic acid);
- Part 8: Mixtures of acetate and triacetate fibres (method using acetone);
- Part 9: Mixtures of acetate and triacetate fibres (method using benzyl alcohol);
- Part 10: Mixtures of triacetate or polylactide and certain other fibres (method using dichloromethane);
- Part 11: Mixtures of cellulose and polyester fibres (method using sulfuric acid);
- Part 12: Mixtures of acrylic, certain modacrylic, certain chlorofibres, certain elastanes and certain other fibres (method using dimethylformamide;
- Part 13: Mixtures of certain chlorofibers and certain other fibers (method using carbon disulfide/acetone);
- Part 14: Mixtures of acetate and certain chlorofibres (method using acetic acid);
- Part 15: Mixtures of jute and certain animal fibres (method by determining nitrogen content);
- Part 16: Mixtures of polypropylene and certain other fibres (method using xylene);
- Part 17: Mixtures of chlorofibers (homopolymers of vinyl chloride) and certain other fibers (method using sulfuric acid);
- Part 18: Mixtures of silk and wool or hair (method using sulfuric acid);

Textiles - Quantitative chemical analysis - Part 17: Mixtures of chlorofibers (homopolymers of vinyl chloride) and certain other fibers (method using sulfuric acid)

1 Scope

This Part of GB/T 2910 specifies the method for determining the content of chlorinated fibers in a mixture of the following fibers, after removal of non-fibrous matter by the sulfuric acid method:

- Chlorinated fibers based on homopolymers of vinyl chloride (whether or not post-chlorinated);

AND

- Cotton, viscose, cupro, modal, acetate, triacetate, polyamide, polyester, certain polyacrylonitrile fibers and certain modified polyacrylonitrile fibers. [Here, modified polyacrylonitrile fibers refer to those that dissolve when placed in concentrated sulfuric acid (ρ = 1.84 g/mL).

When preliminary tests show that chlorinated fibers are not completely soluble in dimethylformamide or carbon disulfide/acetone azeotropic mixtures, this method can be used instead of GB/T 2910.12 and GB/T 2910.13.

2 Normative references

The provisions of the following documents become the provisions of this Part through reference to this Part of GB/T 2910. For dated references, all subsequent amendments (excluding errata) or revisions are not applicable to this Part. However, parties reaching an agreement based on this Part are encouraged to study whether the latest versions of these documents can be used. For undated references, the latest versions apply to this Part.

GB/T 2910.1 Textiles - Quantitative chemical analysis - Part 1: General principles of testing (GB/T 2910.1-2009, ISO 1833-1: 2006, IDT)

3 Principle

Use concentrated sulfuric acid (ρ = 1.84 g/mL) reagent to dissolve and remove non-

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