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Textiles — Quantitative chemical analysis —

Part 18: Mixtures of silk with wool or other animal hair (method using sulfuric acid)

Textiles — Analyse chimique quantitative —

Partie 18: Mélanges de soie avec de la laine ou d'autres poils animaux (méthode à l'acide sulfurique)

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 38, *Textiles*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 248, *Textiles and textile products*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 1833-18:2019), which has been technically revised. The main changes compared to the previous editions are as follows:

— the title has been changed from “Mixtures of silk with other protein fibres…” to “Mixtures of silk with wool or other animal hair….”;

— in Clause 1, “other protein fibres (e.g. wool or animal hair)” have been replaced by “wool or other animal hair”.

A list of all parts in the ISO 1833 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Textiles — Quantitative chemical analysis —

Part 18: Mixtures of silk with wool or other animal hair (method using sulfuric acid)

1 Scope

This document specifies a method, using sulfuric acid, to determine the mass percentage of silk, after removal of non-fibrous matter, in textiles made of mixtures of

— silk

with

— wool or other animal hair.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1833-1, *Textiles — Quantitative chemical analysis — Part 1: General principles of testing*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

4 Principle

The silk fibre is dissolved from a known dry mass of the mixture with a mass fraction of 75 % sulfuric acid.

NOTE Wild silk, such as tussah silk, are not completely soluble in a mass fraction of 75 % sulfuric acid.

The residue is collected, washed, dried and weighed; its mass, corrected if necessary, is expressed as a percentage of the dry mass of the mixture. The percentage of silk is found by the difference.

5 Reagents

Use the reagents described in ISO 1833-1 together with those given in 5.1, 5.2 and 5.3.

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