

SLOVENSKI STANDARD oSIST prEN ISO 1833-18:2020

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Tekstilije - Kvantitativna kemična analiza - 18. del: Mešanica svile z volno ali drugimi živalskimi vlakni (metoda z uporabo žveplene kisline) (ISO/DIS 1833-18:2020)

Textiles - Quantitative chemical analysis - Part 18: Mixtures of silk with wool or other animal hair (method using sulfuric acid) (ISO/DIS 1833-18:2020)

Textilien - Quantitative chemische Analysen - Teil 18: Mischungen aus Seide mit anderen Proteinfasern (Schwefelsäure-Verfahren) (ISO/DIS 1833-18:2020)

Textiles - Analyse chimique quantitative - Partie 18: Mélanges de soie avec laine ou autres poils animaux (méthode à l'acide sulfurique) (ISO/DIS 1833-18:2020)

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Natural fibres Chemical analysis

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en

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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 laine ou autres poils animaux (méthode à l'acide sulfurique)

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ISO/DIS 1833-18:2020(E)

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 38, Textiles.

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 <u>Clause 1</u>, "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 <u>www.iso.org/members.html</u>.

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

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3 Terms and definitions 86fb6992/sist-en-iso-1833-18-2020

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 <u>http://www.electropedia.org/</u>

4 Principle

The silk fibre is dissolved from a known dry mass of the mixture with 75 % (mass fraction) sulfuric acid¹). 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 <u>5.1</u>, <u>5.2</u> and <u>5.3</u>.

5.1 Sulfuric acid, 75 % (mass fraction).

While cooling, carefully add 700 ml of concentrated sulfuric acid (ρ = 1,84 g/ml at 20 °C) to 350 ml of water. After cooling this solution to room temperature, dilute it to 1 l with water. The concentration is not critical within the range 73 % to 77 % (mass fraction) sulfuric acid.

¹⁾ Wild silk, such as tussah silk, are not completely soluble in 75 % (mass fraction) sulfuric acid.