INTERNATIONAL STANDARD

ISO 1833-18

Third edition
2020-10

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)

This document is a preview generated by EVS

Reference number
ISO 1833-18:2020(E)

© ISO 2020

This document is a preview generated by EVS

COPYRIGHT PROTECTED DOCUMENT

© ISO 2020

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

 © ISO 2020 – All rights reserved

Contents

Page

Foreword ..... **iv**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
4 Principle **1**
5 Reagents **1**
6 Apparatus **2**
7 Test procedure **2**
8 Calculation and expression of results **2**
9 Precision **2**
Bibliography **3**

This document is a preview generated by EVS

© ISO 2020 – All rights reserved

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 of 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 www.iso.org/iso/foreword.html.

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.

This document is a preview generated by EVS

 © ISO 2020 – All rights reserved

Textiles — Quantitative chemical analysis —

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

This document is a preview generated by EVS

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.

© ISO 2020 – All rights reserved