

ISO 1833-20:2018



EN ISO 1833-20:2019

NBN EN ISO 1833-20:2019



Textiles - Quantitative chemical analysis - Part 20: Mixtures of elastane with certain other fibres (method using dimethylacetamide) (ISO 1833-20:2018)

Valid from 17-04-2019

Replaces NBN EN ISO 1833-20:2010

ICS: 59.060.01

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 1833-20

March 2019

ICS 59.060.01

Supersedes EN ISO 1833-20:2010

English Version

**Textiles - Quantitative chemical analysis - Part 20:
Mixtures of elastane with certain other fibres (method
using dimethylacetamide) (ISO 1833-20:2018)**

Textiles - Analyse chimique quantitative - Partie 20:
Mélanges d'élasthanne avec certaines autres fibres
(méthode au diméthylacétamide) (ISO 1833-20:2018)

Textilien - Quantitative chemische Analysen - Teil 20:
Mischungen aus Elastanfasern mit bestimmten
anderen Fasern (Dimethylacetamid-Verfahren) (ISO
1833-20:2018)

This European Standard was approved by CEN on 6 December 2018.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN ISO 1833-20:2019 (E)

Contents

Page

European foreword..... 3

European foreword

This document (EN ISO 1833-20:2019) has been prepared by Technical Committee ISO/TC 38 "Textiles" in collaboration with Technical Committee CEN/TC 248 "Textiles and textile products" the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 1833-20:2010.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 1833-20:2018 has been approved by CEN as EN ISO 1833-20:2019 without any modification.

INTERNATIONAL
STANDARD

ISO
1833-20

Second edition
2018-12

**Textiles — Quantitative chemical
analysis —**

**Part 20:
Mixtures of elastane with certain
other fibres (method using
dimethylacetamide)**

Textiles — Analyse chimique quantitative —

*Partie 20: Mélanges d'élasthane avec certaines autres fibres
(méthode au diméthylacétamide)*



Reference number
ISO 1833-20:2018(E)

© ISO 2018

ISO 1833-20:2018(E)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

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
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

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

ISO 1833-20:2018(E)

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 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*.

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 second edition cancels and replaces the first edition (ISO 1833-20:2009), which has been technically revised. The main changes compared to the previous edition are as follows:

- the title has been changed from “Mixtures of elastanes **and** certain other fibres...” to “Mixtures of elastane **with** certain other fibres...”;
- in [Clause 1](#), references to other possible methods have been added;
- the date of publication for ISO 1833-1 has been removed;
- in [Clause 8](#), “percentage point” has been added to avoid confusion.

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

Textiles — Quantitative chemical analysis —

Part 20:

Mixtures of elastane with certain other fibres (method using dimethylacetamide)

1 Scope

This document specifies a method using dimethylacetamide to determine the mass percentage of elastane, after removal of non-fibrous matter, in textiles made of mixtures of:

— certain elastane fibres

with

— cotton, viscose, cupro, modal, lyocell, polyamide, polyester or wool fibres.

This method is not applicable when acrylic fibres are present.

It is also possible to analyse mixtures containing certain elastane fibres by using the test methods described in ISO 1833-12 or ISO 1833-21.

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 elastane fibre is dissolved out from a known dry mass of the mixture with dimethylacetamide (DMA). 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 elastane is found by difference.

5 Reagents

Use the reagents described in ISO 1833-1, together with that specified in 5.1.

5.1 Dimethylacetamide (DMA).