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I.S. EN ISO 1833-12:2020

Textiles - Quantitative chemical analysis - Part 12: Mixtures of acrylic, certain modacrylics, certain chlorofibres, certain elastane fibres with certain other fibres (method using dimethylformamide) (ISO 1833-12:2020)

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National Foreword

I.S. EN ISO 1833-12:2020 is the adopted Irish version of the European Document EN ISO 1833-12:2020, Textiles - Quantitative chemical analysis - Part 12: Mixtures of acrylic, certain modacrylics, certain chlorofibres, certain elastane fibres with certain other fibres (method using dimethylformamide) (ISO 1833-12:2020)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 1833-12

October 2020

ICS 59.060.01

Supersedes EN ISO 1833-12:2019

English Version

Textiles - Quantitative chemical analysis - Part 12: Mixtures of acrylic, certain modacrylics, certain chlorofibres, certain elastane fibres with certain other fibres (method using dimethylformamide) (ISO 1833-12:2020)

Textiles - Analyse chimique quantitative - Partie 12: Mélanges d'acrylique, certains modacryliques, certaines chlorofibres, certains élasthannes avec certaines autres fibres (méthode au diméthylformamide (ISO 1833-12:2020)

Textilien - Quantitative chemische Analysen - Teil 12: Mischungen aus Polyacrylfasern, bestimmten Modacryl-, bestimmten Chlorfasern, bestimmten Elastanfasern mit bestimmten anderen Fasern (Dimethylformamid-Verfahren) (ISO 1833-12:2020)

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European foreword

This document (EN ISO 1833-12:2020) 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of an identical text or by endorsement, at the latest by April 2021, and conflicting national standards shall be withdrawn at the latest by April 2021.

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INTERNATIONAL STANDARD

ISO 1833-12

Third edition
2020-10

Textiles — Quantitative chemical analysis —

Part 12: Mixtures of acrylic, certain modacrylics, certain chlorofibres, certain elastane fibres with certain other fibres (method using dimethylformamide)

Textiles — Analyse chimique quantitative —

Partie 12: Mélanges d'acrylique, certains modacryliques, certaines chlorofibres, certains élasthannes avec certaines autres fibres (méthode au diméthylformamide)

Reference number
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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.

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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 1833-12:2019), which has been technically revised. The main changes compared to the previous edition are as follows:

— in Clause 1, some remaining fibres (polypropylene and polypropylene/polyamide bicomponent have been added;

— in Clause 8, a specific *d* factor for polyacrylate has been added.

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

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Textiles — Quantitative chemical analysis —

Part 12: Mixtures of acrylic, certain modacrylics, certain chlorofibres, certain elastane fibres with certain other fibres (method using dimethylformamide)

1 Scope

This document specifies a method, using dimethylformamide, to determine the mass percentage of acrylic, modacrylic, chlorofibre or elastane, after removal of non-fibrous matter, in textiles made of mixtures of

— acrylic, certain modacrylics, certain chlorofibres, certain elastane fibres

with

— wool, animal hair, silk, cotton, viscose, cupro, modal, lyocell, polyamide, polyester, polypropylene, elastomultiester, elastolefin, melamine, polypropylene/polyamide bicomponent, polyacrylate or glass fibres.

It is not applicable to animal hair, wool and silk dyed with chromium based mordant dyes.

NOTE Dyestuff identification is described in ISO 16373-1.

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 acrylic, modacrylic, chlorofibre or elastane is dissolved out from a known dry mass of the mixture, with dimethylformamide at 90 °C to 95 °C. 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, and the percentage of acrylic, modacrylic, chlorofibre or elastane is found by the difference.

Where certain modacrylic fibres, certain chlorofibres or certain elastane fibres are present, a preliminary test shall be carried out to determine whether the fibre is completely soluble in the reagent.

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