Textiles - Quantitative chemical analysis - Part 7: Mixtures of polyamide and certain other fibres (method using formic acid)

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NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 1833-7:2010 sisaldab Euroopa standardi EN ISO 1833-7:2010 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 1833-7:2010 consists of the English text of the European standard EN ISO 1833-7:2010.
Standard on kinnitatud Eesti Standardikeskuse 31.10.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 31.10.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 13.10.2010.	Date of Availability of the European standard text 13.10.2010.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

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English Version

Textiles - Quantitative chemical analysis - Part 7: Mixtures of polyamide and certain other fibres (method using formic acid) (ISO 1833-7:2006)

Textiles - Analyse chimique quantitative - Partie 7: Mélanges de polyamide et de certaines autres fibres (méthode à l'acide formique) (ISO 1833-7:2006)

Textilien - Quantitative chemische Analysen - Teil 7: Mischungen aus Polyamid- und bestimmten anderen Fasern (Ameisensäure-Verfahren) (ISO 1833-7:2006)

This European Standard was approved by CEN on 12 September 2010.

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

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Foreword

The text of ISO 1833-7:2006 has been prepared by Technical Committee ISO/TC 38 “Textiles” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 1833-7:2010 by 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of an identical text or by endorsement, at the latest by April 2011, and conflicting national standards shall be withdrawn at the latest by April 2011.

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Endorsement notice

The text of ISO 1833-7:2006 has been approved by CEN as a EN ISO 1833-7:2010 without any modification.

Textiles — Quantitative chemical analysis —

Part 7: Mixtures of polyamide and certain other fibres (method using formic acid)

1 Scope

This part of ISO 1833 specifies a method, using formic acid, to determine the percentage of polyamide fibre, after removal of non-fibrous matter, in textiles made of binary mixtures of

— polyamide

and

— cotton, viscose, cupro, modal, polyester, polypropylene, chlorofibre, acrylic or glass fibre.

It is also applicable to mixtures with wool and animal hair, but when the wool content exceeds 25 %, the method described in ISO 1833-4 should be used.

2 Normative references

The following referenced documents are indispensable for the application 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 Principle

The polyamide is dissolved out from a known dry mass of the mixture, with aqueous formic 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 polyamide fibre is found by the difference.

4 Reagents

Use the reagents described in ISO 1833-1 together with those given in 4.1 and 4.2.

4.1 Formic acid, 80 % (mass fraction) (ρ 1,19 g/ml).

Dilute 880 ml of 90 % (mass fraction) formic acid (ρ 1,20 g/ml) to 1 l with water. Alternatively, dilute 780 ml of 98 % to 100 % (mass fraction) formic acid (ρ 1,22 g/ml) to 1 l with water. The concentration is not critical within the range 77 % to 83 % (mass fraction) formic acid.

NOTE Formic acid at 80 % (mass fraction) has a density ρ = 1,186 g/ml.