
Tekstilije - Kvantitativna kemična analiza - 25. del: Mešanice poliestrskih in nekaterih drugih vlaken (metoda z uporabo triklorocetne kisline in kloroforma) (ISO/DIS 1833-25:2019)

Textiles - Quantitative chemical analysis - Part 25: Mixtures of polyester with certain other fibres (method using trichloroacetic acid and chloroform) (ISO/DIS 1833-25:2019)

Textilien - Quantitative chemische Analysen - Teil 25: Mischungen aus Polyester und einigen anderen Fasern (Trichloressigsäure-/Chloroform-Verfahren) (ISO/DIS 1833-25:2019)

Textiles - Analyse chimique quantitative - Partie 25: Mélanges de polyester avec certaines autres fibres (méthode à l'acide trichloracétique et au chloroforme) (ISO/DIS 1833-25:2019)

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Part 25:

Mixtures of polyester with certain other fibres (method using trichloroacetic acid and chloroform)

Textiles — Analyse chimique quantitative —

Partie 25: Mélanges de polyester avec certaines autres fibres (méthode à l'acide trichloracétique et au chloroforme)

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ISO/DIS 1833-25:2019(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. www.iso.org/directives

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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 second edition cancels and replaces the first edition (ISO 1833-25:2013), which has been technically revised. The main changes compared to the previous editions are as follows:

- the title has been changed from “Mixtures of polyester **and** certain other fibres...” to “Mixtures of polyester **with** certain other fibres...”;
- In the introduction explanations have been added
- in [clause 1](#), remaining fibres have been named
- [Clause 3](#) Terms and definitions has been added
- in [Clause 8](#) (former [clause 7](#)) a specific *d* factor for polyacrylate has been added;

Introduction

Chloroform is said to be harmful for operators. Safety shall be secured by strict operation according to safety regulations or precautions. However, alternative methods intended for the dissolution of polyester are included in the Bibliography.

Most of the time with quantitative analysis of fibre mixtures, polyester is the remaining fibre and the other fibres are dissolved.

The method described in this document is useful when the other fibres are insoluble in the usual solvents.

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Textiles — Quantitative chemical analysis —

Part 25:

Mixtures of polyester with certain other fibres (method using trichloroacetic acid and chloroform)

WARNING — This part of ISO 1833 calls for the use of substances/procedures that may be injurious to the health/environment if appropriate conditions are not observed. It refers only to technical suitability and does not absolve the user from legal obligations relating to health and safety/environment at any stage.

1 Scope

This part of ISO 1833 specifies a method using trichloroacetic acid and chloroform to determine the mass percentage of polyester fibres after removal of non-fibrous matter, in textiles made of mixtures of:

— polyester fibres

with

— Aramid fibres (except polyamide imide), flame retardant (FR) viscose and polyacrylate.

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 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 polyester fibre is dissolved out from a known dry mass of the mixture, with a reagent composed of trichloroacetic acid and chloroform. 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 polyester is found by difference.

5 Reagents

Use the reagents described in ISO 1833-1, together with those specified in [5.1](#), [5.2](#) and [5.3](#).

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5.1 Solution of crystallized trichloroacetic acid/chloroform reagent, prepared at a mass ratio 1:1.

SAFETY PRECAUTIONS — The harmful effects of this reagent shall be borne in mind, and full precautions shall be taken during use.

5.2 Solution of 15 g of trichloroacetic acid filled up to 100 g with chloroform.

5.3 Chloroform.

6 Apparatus

Use the apparatus described in ISO 1833-1, together with that described in [6.1](#).

6.1 Conical flask, of minimum capacity of 200 ml, glass stoppered.

7 Test procedure

Follow the general procedure described in ISO 1833-1, and then proceed as follows.

7.1 Place the specimen in the conical flask.

7.2 Add 50 ml of trichloroacetic acid/chloroform reagent ([5.1](#)) per gram of specimen.

7.3 Stopper the conical flask and shake it vigorously.

7.4 Allow the flask and contents to remain for 15 min, shaking it during this time at intervals.

7.5 Decant the liquid through the weighed filter crucible with suction.

7.6 Pour 100 ml of trichloroacetic acid/chloroform reagent (4.1) into the conical flask, decant the liquid through the filter crucible, and then transfer any residual fibres to the crucible by washing out the conical flask with the trichloroacetic acid/chloroform solution (4.2) followed by chloroform (4.3).

7.7 Drain the crucible with suction. Do not apply suction until the washing liquor has drained under gravity.

7.8 Finally, drain the crucible with suction, dry the crucible and residue, cool and weigh them.

7.9 Check the residue under a microscope to see if the treatment completely eliminated the soluble fibre.

8 Calculation and expression of results

Calculate the results as described in the general instructions of ISO 1833-1.

The value of d is 1,00 except for polyacrylate, for which “ d ” is 1,01.

9 Precision

On a homogeneous mixture of textile materials, the confidence limits of the results obtained by this method are not greater than ± 1 percentage point for the confidence level of 95 %.