
**Textiles — Quantitative chemical
analysis —**

**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)*



This document is a preview generated by EKO



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

Contents

	Page
Foreword.....	iv
Introduction.....	v
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

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, *Textile and textile products*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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 the scope, remaining fibres have been named;
- the mandatory [Clause 3](#), Terms and definitions, has been added;
- in [Clause 8](#) (former Clause 7) a specific *d* factor for polyacrylate has been added.

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.

Introduction

Chloroform is said to be harmful for operators. Safety is secured by strict operation according to safety regulations or precautions. However, alternative methods intended for the dissolution of polyester are given References [1] and [2].

With quantitative analysis of fibre mixtures, polyester is usually 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.

Textiles — Quantitative chemical analysis —

Part 25:

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

WARNING — This document calls for the use of substances/procedures that may be harmful 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 document 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 document is referred to in the text in such a way that some or all of its 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 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](#).