Textiles - Industrial washing and finishing procedures for testing of workwear (ISO 15797:2017)



# EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 15797:2018 sisaldab Euroopa standardi EN ISO 15797:2018 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 15797:2018 consists of the English text of the European standard EN ISO 15797:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 14.02.2018.	Date of Availability of the European standard is 14.02.2018.
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### ICS 59.080.01

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# EUROPEAN STANDARD

NORME EUROPÉENNE

# **EN ISO 15797**

# EUROPÄISCHE NORM

February 2018

ICS 59.080.01

Supersedes EN ISO 15797:2004

## **English Version**

# Textiles - Industrial washing and finishing procedures for testing of workwear (ISO 15797:2017)

Textiles - Méthodes de blanchissage et de finition industriels pour les essais des vêtements de travail (ISO 15797:2017)

Textilien - Industrielle Wasch- und Finishverfahren zur Prüfung von Arbeitskleidung (ISO 15797:2017)

This European Standard was approved by CEN on 21 November 2017.

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.

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

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

# **European foreword**

This document (EN ISO 15797:2018) 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 August 2018, and conflicting national standards shall be withdrawn at the latest by August 2018.

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 15797:2004.

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 15797:2017 has been approved by CEN as EN ISO 15797:2018 without any modification.

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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.

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 <a href="www.iso.org/directives">www.iso.org/directives</a>).

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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: <a href="https://www.iso.org/iso/foreword.html">www.iso.org/iso/foreword.html</a>.

This document was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 2, *Cleansing*, *finishing and water resistance tests*.

This second edition cancels and replaces the first edition (ISO 15797:2002), which has been technically revised. It also incorporates the Technical Corrigendum ISO 15797:2002/Cor. 1:2004.

The main changes compared to the previous edition are as follows:

- in the Scope, the restriction of workwear to cotton, polyester and their blends has been removed, thereby including other fibres, and the accommodation of some PPE garments for which the referenced processes are appropriate has been added;
- <u>6.5</u> has been added to give examples of antichlor chemicals;
- in <u>9.2</u>, in light of experience, changes have been made to Drying procedure B tunnel and cabinet finishing;
- throughout <u>Tables 1</u> to <u>4</u>, the headings Cotton and Polyester/cotton have been replaced by Full load and Reduced load, respectively, to facilitate the change in the Scope;
- Annex A has been revised to include alternative temperature measuring systems.

# Introduction

This document enables manufacturers of textiles to test their fabrics and garments for resistance to exacting washing and drying processes used in industrial laundries for care and maintenance purposes.

It is not practical to carry out rigorous testing in an industrial laundry environment and this document, using intermediate stage equipment, allows testing to be done in a more exacting laboratory setting under standardized conditions.

This document is a test method and is not intended as instructions or recommendations on how to ial I.

sists of a was. wash and dry in an industrial laundry. Nor does it provide specifications on equipment to be used by industrial launderers.

A laundering cycle consists of a washing and a drying/finishing procedure.

# Textiles — Industrial washing and finishing procedures for testing of workwear

# 1 Scope

This document specifies test procedures and equipment which can be used in the evaluation of workwear (including, where appropriate, for some PPE garments) intended to be industrially laundered. They serve as a basis for testing relevant properties such as dimensional stability, colour characteristics, creasing, seam puckering, pilling and visual aspects in general.

This document does not provide instructions and specifications for the procedures and equipment to be used by industrial launderers.

As it is often not practical to reproduce industrial laundry processes (washing and drying/finishing) in a laboratory setting, this document provides an approach using defined intermediate scale equipment and exacting test procedures which can be used for the evaluation of workwear intended to be laundered industrially.

As this document reflects a simulation of real-life industrial laundry conditions, in some cases, testing of the workwear in the actual industrial laundering equipment and processes intended to be used is advisable when finally determining product and process compatibility.

It is not necessary to test using all eight washing procedures nor both drying procedures. A selection is made of the washing and drying procedure(s) that are best suited to the characteristics of the fabric or fabric composition and the intended use.

#### 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 139, Textiles — Standard atmospheres for conditioning and testing

ISO 3071, Textiles — Determination of pH of aqueous extract

ISO 3759, Textiles — Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change

#### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <a href="http://www.electropedia.org/">http://www.electropedia.org/</a>
- ISO Online browsing platform: available at <a href="https://www.iso.org/obp/">https://www.iso.org/obp/</a>

#### 3.1

#### cage

rotating container within which the load is held during the laundering process

Note 1 to entry: The cage is generally fabricated from perforated stainless steel.