

**Textiles - Professional care, drycleaning and
wetcleaning of fabrics and garments - Part 1:
Assessment of performance after cleaning and finishing**

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 3175-1:2010 sisaldab Euroopa standardi EN ISO 3175-1:2010 ingliskeelset teksti.

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EUROPEAN STANDARD

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English Version

**Textiles - Professional care, drycleaning and wetcleaning of
fabrics and garments - Part 1: Assessment of performance after
cleaning and finishing (ISO 3175-1:2010)**

Textiles - Entretien professionnel, nettoyage à sec et
nettoyage à l'eau des étoffes et des vêtements - Partie 1:
Évaluation de la résistance après le nettoyage et la finition
(ISO 3175-1:2010)

Textilien - Fachgerechte Pflege, Chemischreinigung und
Nassreinigung von textilen Flächengebilden und
Kleidungsstücken - Teil 1: Leistungsbewertung nach
Reinigung und Nachbearbeitung (ISO 3175-1:2010)

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

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Foreword

This document (EN ISO 3175-1:2010) 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of an identical text or by endorsement, at the latest by September 2010, and conflicting national standards shall be withdrawn at the latest by September 2010.

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Endorsement notice

The text of ISO 3175-1:2010 has been approved by CEN as a EN ISO 3175-1:2010 without any modification.

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Introduction

Drycleaning is a process for cleaning textiles in an organic solvent that dissolves oils and fats and disperses particulate dirt substantially without the swelling and creasing associated with washing or wetcleaning. Small quantities of water may be incorporated in the solvent with the aid of a surfactant for the purpose of obtaining better soil and stain removal. Some moisture-sensitive articles are preferably drycleaned without the addition of water to the solvent. A surfactant is often used to assist with soil removal and reduce the risk of greying, but it should be borne in mind that surfactants contain varying amounts of water in their formulations.

Drycleaning is normally followed by an appropriate restorative finishing procedure. In most cases, this comprises some form of steam treatment and/or hot pressing.

Properties of the textile or garment may change progressively on drycleaning and steaming and/or pressing and, in some cases, a single treatment can give little indication of the extent of dimensional and other changes that can arise after repeated treatments and which can affect the useful life of the article. Generally, most of the potential changes become apparent after three to five of the drycleaning and finishing treatments specified in ISO 3175-2.

Textiles — Professional care, drycleaning and wetcleaning of fabrics and garments —

Part 1: Assessment of performance after cleaning and finishing

1 Scope

This part of ISO 3175 specifies a method for assessing textile articles which have been tested according to ISO 3175-2.

Fabric and garment properties, which can change on drycleaning and finishing, are identified and methods for assessing change using existing International Standards are given as appropriate. Other properties which are also important, but for which there are no International Standards providing methods of assessment, are indicated in Annex A, together with advice on how to proceed on their assessment.

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 105-A02, *Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour*

ISO 105-A03, *Textiles — Tests for colour fastness — Part A03: Grey scale for assessing staining*

ISO 105-D01, *Textiles — Tests for colour fastness — Part D01: Colour fastness to dry-cleaning using perchloroethylene solvent*

ISO 105-E07, *Textiles — Tests for colour fastness — Part E07: Colour fastness to spotting: Water*

ISO 105-F10, *Textiles — Tests for colour fastness — Part F10: Specification for adjacent fabric: Multifibre*

ISO 139, *Textiles — Standard atmospheres for conditioning and testing*

ISO 3175-2, *Textiles — Professional care, drycleaning and wetcleaning of fabrics and garments — Part 2: Procedure for testing performance when cleaning and finishing using tetrachloroethene*

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

ISO 4920, *Textiles — Determination of resistance to surface wetting (spray test) of fabrics*

ISO 7768, *Textiles — Test method for assessing the smoothness appearance of fabrics after cleansing*

ISO 7769, *Textiles — Test method for assessing the appearance of creases in fabrics after cleansing*

ISO 7770, *Textiles — Test method for assessing the smoothness appearance of seams in fabrics after cleansing*

ISO 9867, *Textiles — Evaluation of the wrinkle recovery of fabrics — Appearance method*

ISO 12947-1, *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method — Part 1: Martindale abrasion testing apparatus*

ISO 12947-2, *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method — Part 2: Determination of specimen breakdown*

ISO 12947-3, *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method — Part 3: Determination of mass loss*

ISO 12947-4, *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method — Part 4: Assessment of appearance change*

3 Terms and definitions

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

3.1 composite test specimen

test specimen consisting of all component parts used in the finished item, and combined in a representative assembly

3.2 drycleanability

extent to which an article may be cleaned by means of immersion with agitation in organic solvents commonly used for the purpose

NOTE This process consists of cleaning, centrifugal extraction, drying and finishing in order to restore shape and appearance.

4 Principle

At least two identical test specimens are obtained. The first test specimen is used as a control, and does not undergo any drycleaning treatment. It is retained to indicate the original condition. The second test specimen is subjected to a drycleaning process using commercial equipment involving a two-bath cleaning process, centrifugal extraction, tumble drying and appropriate finishing. An assessment of dimensional, colour and other changes is carried out after cleaning and finishing by comparing the second test specimen with the first test specimen. The assessment determines whether or not the item is regarded as drycleanable in the process selected.

If a retest in a more sensitive process is necessary, a third test specimen is required.

5 Apparatus and reagents

5.1 **Drycleaning and finishing apparatus**, as specified in ISO 3175-2.

5.2 **Grey scales**, as specified in ISO 105-A02 and ISO 105-A03.

5.3 **Crease replicas**, as specified in ISO 7769.

5.4 **Surface wetting scales**, as specified in ISO 4920.

5.5 **Wrinkle recovery replicas**, as specified in ISO 9867.