

SLOVENSKI STANDARD
oSIST prEN ISO 3175-6:2019
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**Tekstilije - Kemično čiščenje, suho in mokro čiščenje izdelkov in oblačil - 6. del:
Postopek preskušanja učinkovitosti pri čiščenju in plemenitenju z
dekametilpentaciklosiloksanom (ISO/DIS 3175-6:2018)**

Textiles - Professional care, drycleaning and wetcleaning of fabrics and garments - Part
6: Procedure for testing performance when cleaning and finishing using
decamethylpentacyclosiloxane (ISO/DIS 3175-6:2018)

Textilien - Professionelle Pflege, Chemischreinigung und Nassreinigung von textilen
Flächengebilden und Kleidungsstücken - Teil 6: Verfahren zur Prüfung des Verhaltens
beim Reinigen und Nachbehandeln unter Verwendung von Decamethylpentacyclosiloxan
(ISO/DIS 3175-6:2018)

Textiles - Entretien professionnel, nettoyage à sec et nettoyage à l'eau des étoffes et des
vêtements - Partie 6: Mode opératoire pour évaluer la résistance au nettoyage et à la
 finition avec du décaméthylpentacyclosiloxane (ISO/DIS 3175-6:2018)

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

Part 6:

Procedure for testing performance when cleaning and finishing using decamethylpentacyclosiloxane

*Textiles — Entretien professionnel, nettoyage à sec et nettoyage à l'eau des étoffes et des vêtements —**Partie 6: Mode opératoire pour évaluer la résistance au nettoyage et à la finition lors du traitement au Décaméthylpentacyclosiloxane*

ICS: 59.080.01

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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 (see 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*, Subcommittee SC 2, *Cleansing, finishing and water resistance tests*.

A list of all parts in the ISO 3175- series can be found on the ISO website.

Introduction

Drycleaning is a process used by professionals 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 detergent 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 detergent is often used to assist with soil removal and reduce the risk of greying, but it must be borne in mind that detergents 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 may give little indication of the extent of dimensional and other changes that may arise after repeated treatments and which may affect the useful life of the article. Generally, most of the potential change will become apparent after three to five of the drycleaning and finishing treatments specified in this part of ISO 3175. This progressive change should be borne in mind when the parties determine the number of repeat cycles which shall be given. Textile articles suitable for being cleaned in D5 would also be suitable for being cleaned in hydrocarbons.

The properties which should be considered in an assessment for drycleanability with the methods for their assessment are given in ISO 3175-1.

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

Part 6:

Procedure for testing performance when cleaning and finishing using decamethylpentacyclosiloxane

SAFETY PRECAUTIONS — When using drycleaning equipment, official regulations and normal safety precautions should be observed.

1 Scope

This part of ISO 3175 specifies drycleaning procedures for decamethylpentacyclosiloxane, using commercial drycleaning machines, for fabrics and garments. It comprises procedures for normal and sensitive materials (see 3.3 and 3.4).

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

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 <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

materials

garments, composites test specimen or fabrics

[SOURCE: ISO 3175-2x, 3.1]

3.2

composite test specimen

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

[SOURCE: ISO 3175-1x, 3.1]

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3.3

normal materials

materials consisting of all components parts which are able to withstand the normal drycleaning process as specified in this part of ISO 3175, without modification

[SOURCE: ISO 3175-5x, [3.3](#)]

3.4

sensitive materials

materials consisting of all components parts which may require restrictions as to mechanical action and/or drying temperatures and/or water additions

EXAMPLE Fibre type: Acrylics, silk. Fabric Type: crepe.

[SOURCE: ISO 3175-5x, [3.4](#)]

4 Principle

The specimen, or specimens, are drycleaned in a commercial machine and finished according to one of the specified procedures. This process is a precursor to the assessment of the cleaned specimen in accordance with ISO 3175-1.

5 Reagents

5.1 Decamethylpentacyclosiloxane

Decamethylpentacyclosiloxane (D5) (CAS 541-02-6) sold for the purpose of drycleaning with a flashpoint of 77 °C, boiling point of 210 °C.

5.2 Detergent

Cocofattyaciddiethanolamide is used as a model for a standard drycleaning detergent. Cocofattyaciddiethanolamide is used as an emulsifier for water in drycleaning solvent.

NOTE In order to prevent foaming, it is important to use distilled, clean solvent solution and not overfill the still.

6 Apparatus and materials

6.1 Drycleaning machine, consisting of a reversible rotating cage and safety system intended for use with decamethylpentacyclosiloxane.

The diameter of the rotating cage shall be 600 mm minimum and 1 080 mm maximum. Its depth shall be 300 mm minimum. It shall be fitted with three or four lifters. The speed shall be such as to give a *g*-factor of between 0,5 and 0,8 for cleaning and between 100 and 300 for extraction.

The *g*-factor is calculated according to the following formula:

$$g = 5,6n^2d \times 10^{-7}$$

where

n is the rotational frequency, in rotations per minute;

d is the rotating cage diameter, in millimetres.