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Textiles - Oil repellency - Hydrocarbon resistance test (ISO 14419:2025)

EESTI STANDARDIMIS- JA AKREDITEERIMISKESKUS
ESTONIAN CENTRE FOR STANDARDISATION AND ACCREDITATION

EESTI STANDARDI EESSÕNA

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See Eesti standard EVS-EN ISO 14419:2025 sisaldab Euroopa standardi EN ISO 14419:2025 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 14419:2025 consists of the English text of the European standard EN ISO 14419:2025.
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ICS 59.080.01

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 14419

November 2025

ICS 59.080.01

Supersedes EN ISO 14419:2010

English Version

Textiles - Oil repellency - Hydrocarbon resistance test (ISO 14419:2025)

Textiles - Oléofugation - Essai de résistance aux hydrocarbures (ISO 14419:2025)

Textilien - Oleophobie - Prüfung der Beständigkeit mit Hilfe von Kohlenwasserstoffen (ISO 14419:2025)

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

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Ref. No. EN ISO 14419:2025 E

European foreword

This document (EN ISO 14419:2025) 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of an identical text or by endorsement, at the latest by May 2026, and conflicting national standards shall be withdrawn at the latest by May 2026.

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 14419:2010.

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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 document 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 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*, Subcommittee SC 2, *Cleansing, finishing and water resistance tests,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 248, *Textiles and textile products,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 14419:2010), which has been technically revised.

The main changes are as follows:

— Clause 6 has been renamed “Reagents and materials”. The material “white textile blotting paper” has been moved to 6.4

— in 6.3, the CAS Registry Number® for white mineral oil has been added;

— Clause 8 has been revised:

  — the size of test specimens has been changed to 35 cm × 35 cm;

  — “Conduct the testing procedure over the test specimen’s width on minimum of two positions” has been added;

— 9.3 has been revised:

— “a minimum of” has been deleted, and

— “Exception can be made for known test specimens where beginning with a higher oil number is allowed; in this case the lowest-numbered test liquid shall be two below the known number.” has been added at the end of the first paragraph;

— in 9.5, the maximum number of six tests has been deleted;

— in Clause 11, Figure 1 has been replaced.

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Textiles — Oil repellency — Hydrocarbon resistance test

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1 Scope

This document specifies a method for the evaluation of a substrate's resistance to absorption of a selected series of liquid hydrocarbons of different surface tensions.

This document provides guidance to oil stain resistance. It can provide a rough index of oil stain resistance as, generally, the higher the oil repellency grade, the better resistance to staining by oily materials, especially liquid oil substances. This is particularly true when comparing various finishes for a given substrate. This document can also be used to determine if washing and/or drycleaning treatments have any adverse effect on the oil repellency characteristics of a substrate.

NOTE 1 Washing and drycleaning treatment procedures are described in ISO 6330 and ISO 3175 (all parts), respectively.

This document is not intended to give an absolute measure of the resistance of the substrate to staining by all oily materials. Other factors, such as composition and viscosity of the oily substances, substrate construction, fibre type, dyes and other finishing agents, also influence stain resistance. This document is not intended to estimate the resistance to penetration of the substrate by oil-based chemicals.

NOTE 2 For the evaluation of the resistance to penetration of the substrate by oil-based chemicals, see ISO 6530.

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*

3 Terms and definitions

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

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

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
grade
symbol for any step of a multistep standard reference scale for a quality characteristic

Note 1 to entry: The grade is assigned to test specimens exhibiting a degree of the quality comparable to that step of the standard reference scale.

3.2
oil repellency
characteristic of a fabric whereby it resists absorption of oily liquids

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