

Leather - Chemical tests - Determination of the preservative (TCMTB, PCMC, OPP, OIT) content in leather by liquid chromatography (ISO 13365:2011)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 13365:2011 sisaldab Euroopa standardi EN ISO 13365:2011 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 28.02.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 15.01.2011.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 13365:2011 consists of the English text of the European standard EN ISO 13365:2011.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 28.02.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 15.01.2011.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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English Version

Leather - Chemical tests - Determination of the preservative
(TCMTB, PCMC, OPP, OIT) content in leather by liquid
chromatography (ISO 13365:2011)

Cuir - Essais chimiques - Dosage des agents de
conservation (TCMTB, PCMC, OPP, OIT) dans le cuir par
chromatographie en phase liquide (ISO 13365:2011)

Leder - Chemische Prüfungen - Bestimmung von
Konservierungsmitteln (TCMTB, CMK, OPP, OIT) in Leder
mittels Flüssigchromatographie (ISO 13365:2011)

This European Standard was approved by CEN on 14 January 2011.

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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 13365:2011) has been prepared by Technical Committee CEN/TC 289 "Leather", the secretariat of which is held by UNI, in collaboration with Technical Committee IULTCS "International Union of Leather Technologists and Chemists Societies".

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of an identical text or by endorsement, at the latest by July 2011, and conflicting national standards shall be withdrawn at the latest by July 2011.

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Leather — Chemical tests — Determination of the preservative (TCMTB, PCMC, OPP, OIT) content in leather by liquid chromatography

1 Scope

This International Standard specifies a test method for the determination of the content of the following preservative agents:

- 2-(thiocyanomethylthio)benzothiazole (TCMTB);
- 4-chloro-3-methylphenol (PCMC);
- 2-phenylphenol (OPP);
- 2-octylisothiazol-3(2H)-one (OIT);

in leather by liquid chromatography.

Preservative agents are necessary to protect leather from microbiological attack.

NOTE The preservative agents 4-chloro-3-methylphenol (PCMC) and 2-phenylphenol (OPP) can also be determined according to ISO 17070 and quantified by means of gas chromatography/mass spectroscopy (GC/MS).

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 2418, *Leather — Chemical, physical and mechanical and fastness tests — Sampling location*

ISO 4044, *Leather — Chemical tests — Preparation of chemical test samples*

ISO 4684, *Leather — Chemical tests — Determination of volatile matter*

3 Principle

The leather sample is extracted with a suitable solvent using ultrasonic waves. The filtered extract is analysed by high-performance liquid chromatography (HPLC) with ultraviolet (UV) detection.

4 Reagents

4.1 **TCMTB**, minimum 99,7 %.

4.2 **TCMTB stock solution**, 500 mg/l in acetonitrile.