

SLOVENSKI STANDARD
SIST-TS CEN ISO/TS 16189:2014
01-januar-2014

Obutev - Kritične snovi, ki so lahko v obutvi in delih obutve - Preskusna metoda za kvantitativno ugotavljanje dimetilformamida v obutvenih materialih (ISO/TS 16189:2013)

Footwear - Critical substances potentially present in footwear and footwear components - Test method to quantitatively determine dimethylformamide in footwear materials (ISO/TS 16189:2013)

Schuhe - Möglicherweise in Schuhen und Schuhbestandteilen vorhandene kritische Substanzen - Prüfverfahren zur quantitativen Bestimmung von Dimethylformamid in Schuhwerkstoffen (ISO/TS 16189:2013)

[SIST-TS CEN ISO/TS 16189:2014](https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-11f2-4e69-bd08)

[https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-](https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-11f2-4e69-bd08)

Chaussures - Substances critiques potentiellement présentes dans la chaussure et les composants de chaussure - Méthodes d'essai pour déterminer quantitativement le diméthylformamide dans les matériaux de chaussure (ISO/TS 16189:2013)

Ta slovenski standard je istoveten z: CEN ISO/TS 16189:2013

ICS:

61.060 Obuvala Footwear

SIST-TS CEN ISO/TS 16189:2014 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST-TS CEN ISO/TS 16189:2014](#)

<https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-31c1478dba57/sist-ts-cen-iso-ts-16189-2014>

TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CEN ISO/TS 16189

July 2013

ICS 61.060

English Version

**Footwear - Critical substances potentially present in footwear
and footwear components - Test method to quantitatively
determine dimethylformamide in footwear materials (ISO/TS
16189:2013)**

Chaussures - Substances critiques potentiellement
présentes dans la chaussure et les composants de
chaussure - Méthodes d'essai pour déterminer
quantitativement le diméthylformamide dans les matériaux
de chaussure (ISO/TS 16189:2013)

Schuhe - Möglicherweise in Schuhen und
Schuhbestandteilen vorhandene kritische Substanzen -
Prüfverfahren zur quantitativen Bestimmung von
Dimethylformamid in Schuhwerkstoffen (ISO/TS
16189:2013)

This Technical Specification (CEN/TS) was approved by CEN on 15 July 2013 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

CEN members are the national standards bodies of 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

	Page
Foreword.....	3

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST-TS CEN ISO/TS 16189:2014](https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-31c1478dba57/sist-ts-cen-iso-ts-16189-2014)
<https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-31c1478dba57/sist-ts-cen-iso-ts-16189-2014>

Foreword

This document (CEN ISO/TS 16189:2013) has been prepared by Technical Committee CEN/TC 309 "Footwear", the secretariat of which is held by AENOR, in collaboration with Technical Committee ISO/TC 216 "Footwear".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO/TS 16189:2013 has been approved by CEN as CEN ISO/TS 16189:2013 without any modification.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST-TS CEN ISO/TS 16189:2014](https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-31c1478dba57/sist-ts-cen-iso-ts-16189-2014)

<https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-31c1478dba57/sist-ts-cen-iso-ts-16189-2014>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST-TS CEN ISO/TS 16189:2014](#)

<https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-31c1478dba57/sist-ts-cen-iso-ts-16189-2014>

TECHNICAL
SPECIFICATION

ISO/TS
16189

First edition
2013-07-15

**Footwear — Critical substances
potentially present in footwear
and footwear components — Test
method to quantitatively determine
dimethylformamide in footwear
materials**

iTeh STANDARD PREVIEW

*Chaussures — Substances critiques potentiellement présentes dans
la chaussure et les composants de chaussure — Méthodes d'essai
pour déterminer quantitativement le diméthylformamide dans les
matériaux de chaussure*

SIST-TS CEN ISO/TS 16189:2014

<https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-31c1478dba57/sist-ts-cen-iso-ts-16189-2014>



Reference number
ISO/TS 16189:2013(E)

© ISO 2013

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST-TS CEN ISO/TS 16189:2014](https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-31c1478dba57/sist-ts-cen-iso-ts-16189-2014)

<https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-31c1478dba57/sist-ts-cen-iso-ts-16189-2014>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2013

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword.....	iv
1 Scope.....	1
2 Normative references.....	1
3 Method principle.....	1
4 Reagents and solvents.....	1
4.1 Reagents.....	1
4.2 Stock solutions.....	1
5 Equipment.....	2
6 Preparation of sample.....	2
6.1 Sampling.....	2
6.2 Extraction.....	2
7 Determination with GC-MS.....	3
7.1 Calibration standard.....	3
7.2 Examples of instrumental method.....	3
8 Quantification.....	3
8.1 Calibration curve.....	3
9 Performance of the method.....	4
10 Test report.....	4
Annex A (informative) Suggested parameters for GC-MS determination of DMFo.....	5
Bibliography.....	6

[SIST-TS CEN ISO/TS 16189:2014](https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-31c1478dba57/sist-ts-cen-iso-ts-16189-2014)

<https://standards.iteh.ai/catalog/standards/sist/75c62f21-11f2-4e69-bd08-31c1478dba57/sist-ts-cen-iso-ts-16189-2014>