

SLOVENSKI STANDARD SIST EN ISO 15512:2009

01-december-2009

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Plastics - Determination of water content (ISO 15512:2008)

Kunststoffe - Bestimmung des Wassergehaltes (ISO 15512:2008)

Plastiques - Dosage de l'eau (ISO 15512:2008) (standards.iteh.ai)

Ta slovenski standard je istoveten zr en is EN ISO (15 512:2009

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9ae8b9052194/sist en iso 15512-2009

ICS:

83.080.01 Polimerni materiali na

splošno

Plastics in general

SIST EN ISO 15512:2009

en,fr,de

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM **EN ISO 15512**

July 2009

ICS 83.080.01

Supersedes EN ISO 15512:2003

English Version

Plastics - Determination of water content (ISO 15512:2008)

Plastiques - Dosage de l'eau (ISO 15512:2008)

Kunststoffe - Bestimmung des Wassergehaltes (ISO 15512:2008)

This European Standard was approved by CEN on 20 June 2009.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

EN ISO 15512:2009 (E)

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EN ISO 15512:2009 (E)

Foreword

The text of ISO 15512:2008 has been prepared by Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 15512:2009 by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by NBN.

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 January 2010, and conflicting national standards shall be withdrawn at the latest by January 2010.

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.

This document supersedes EN ISO 15512:2003.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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The text of ISO 15512:2008 has been approved by CEN as EN ISO 15512:2009 without any modification.

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SIST EN ISO 15512:2009

INTERNATIONAL STANDARD

ISO 15512

Second edition 2008-05-15

Plastics — Determination of water content

Plastiques — Dosage de l'eau

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ISO 15512:2008(E)

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ISO 15512:2008(E)

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 15512 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 5, *Physical-chemical properties*.

This second edition cancels and replaces the first edition (ISO 15512:1999), which has been technically revised.

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ISO 15512:2008(E)

Introduction

The inter-laboratory comparability of water content determinations is often low. Major causes for this are the sample packaging, sample handling and differences between equipment and settings. In order to be able to compare data between two laboratories, special care needs to be taken with sample packaging and sample handling. Samples should e.g. be packed in special glass containers or water barrier sealed bags. Sample handling should preferably be carried out in a dry nitrogen or air environment. To improve the repeatability and reproducibility, the procedure specified in this International Standard should be followed strictly.

The temperature settings for the vaporization method described in this International Standard are not specified in the standard. For the manometric method, a temperature of 200 °C is often used. However, for some condensation materials this might be too high and could e.g. cause generation of water due to a condensation reaction.

The heating temperature should be optimized concerning the material to be tested, the equipment in use and the practical circumstances. If the temperature is too low, the total amount of water in the material to be tested will not be evaporated completely, whereas too high temperatures cause water generation due to effects like degradation and condensation reactions.

In this International Standard, a procedure is included for optimization of the heating temperature in order to choose the correct temperature for the water content determination and to improve the inter-laboratory comparability.

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