

SLOVENSKI STANDARD
SIST EN 61034-1:2005/A1:2014
01-julij-2014

Merjenje gostote dima pri gorenju kablov pri določenih pogojih - 1. del: Preskusni aparat - Dopolnilo A1 (IEC 61034-1:2005/A1:2013)

Measurement of smoke density of cables burning under defined conditions - Part 1: Test apparatus

Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen - Teil 1: Prüfeinrichtung

Mesure de la densité de fumées dégagées par des câbles brûlant dans des conditions définies - Partie 1: Appareillage d'essai

<https://standards.iteh.ai/catalog/standards/sist/4978bf37-b9b4-4dfb-bfd8-2abc2ab662e6/sist-en-61034-1-2005-a1-2014>

Ta slovenski standard je istoveten z: EN 61034-1:2005/A1:2014

ICS:

13.220.40	Sposobnost vžiga in obnašanje materialov in proizvodov pri gorenju	Ignitability and burning behaviour of materials and products
29.060.20	Kabli	Cables

SIST EN 61034-1:2005/A1:2014 **en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61034-1/A1

April 2014

ICS 13.220.40; 29.020; 29.060.20

English version

**Measurement of smoke density of cables burning
under defined conditions -
Part 1: Test apparatus
(IEC 61034-1:2005/A1:2013)**

Mesure de la densité de fumées
dégagées par des câbles brûlant
dans des conditions définies -
Partie 1: Appareillage d'essai
(CEI 61034-1:2005/A1:2013)

Messung der Rauchdichte von Kabeln und
isolierten Leitungen beim Brennen unter
definierten Bedingungen -
Teil 1: Prüfeinrichtung
(IEC 61034-1:2005/A1:2013)

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This amendment A1 modifies the European Standard EN 61034-1:2005; it was approved by CENELEC on 2013-07-26. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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-CENELEC Management Centre or to any CENELEC member.

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

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 20/1428/FDIS, future IEC 61034-1:2005/A1, prepared by IEC/TC 20 "Electric cables" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61034-1:2005/A1:2014.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-10-04
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-07-26

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

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 61034-1:2005/A1:2013 was approved by CENELEC as a European Standard without any modification.

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IEC 61034-1

Edition 3.0 2013-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

**Measurement of smoke density of cables burning under defined conditions –
Part 1: Test apparatus** (standards.iteh.ai)

**Mesure de la densité de fumées dégagées par des câbles brûlant dans des
conditions définies –
Partie 1: Appareillage d'essai**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

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ICS 13.220.40; 29.020; 29.060.20

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FOREWORD

This amendment has been prepared by IEC technical committee 20: Electric cables.

The text of this amendment is based on the following documents:

FDIS	Report on voting
20/1428/FDIS	20/1443/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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10.3 Qualification fire sources SIST EN 61034-1:2005/A1:2014

Replace the existing subclause by the following new subclause:
<https://standards.iteh.ai/catalog/standards/sist/4978bf37-b9b4-4dfb-bfd8-2abc2ab662e6/sist-en-61034-1-2005-a1-2014>

Two mixtures, a) and b), of PA (pro analysis) toluene and alcohol (as defined in Clause 6) shall be made up as follows:

The two mixtures shall be prepared by measuring the required quantity of toluene, 40 ml for a) or 100 ml for b), into a 1,0 l volumetric flask using a pipette and adding alcohol up to the 1,0 l calibration mark.

NOTE PA toluene has a purity greater than 99,5 %.

The mixtures shall be contained in a tray as described in Clause 6.

10.4 Test procedure

Replace the existing text of the second sentence by the following:

Record the minimum of the measured transmittance level I_t during the test.

10.5 Calculation

In the first formula, replace " I_t " by " $I_{t(\min)}$ "

Replace "where I_0 is the initial transmittance." by:

where I_0 is the initial transmittance level of incident light and $I_{t(\min)}$ is the minimum of the measured transmittance level during the qualification test"

Annex A – Guidance notes**Clause A.2 Optical system**

In the third line of a) replace “ I_t ” by “ I_i ” in the English text only.

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