SLOVENSKI STANDARD

SIST EN 60464-2:2002/A1:2006

julij 2006

Prevleke za električno izolacijo – 2. del: Preskusne metode (IEC 60464-2:2001/A1:2006)

Varnishes used for electrical insulation – Part 2: Methods of test (IEC 60464-2:2001/A1:2006)

ICS 29.035.60

Referenčna številka
SIST EN 60464-2:2002/A1:2006(en)

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60464-2/A1

March 2006

ICS 17.220.99; 29.035.01

English version

Varnishes used for electrical insulation
Part 2: Methods of test
(IEC 60464-2:2001/A1:2006)

Vernis utilisés pour l'isolation électrique
Partie 2: Méthodes d'essai
(CEI 60464-2:2001/A1:2006)

Elektroisolierlacke
Teil 2: Prüfverfahren
(IEC 60464-2:2001/A1:2006)

This amendment A1 modifies the European Standard EN 60464-2:2001; it was approved by CENELEC on 2006-02-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Ref. No. EN 60464-2:2001/A1:2006 E

Foreword

The text of document 15/253/FDIS, future amendment 1 to IEC 60464-2:2001, prepared by IEC TC 15, Electrical insulating materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 60464-2:2001 on 2006-02-01.

The following dates were fixed:

– latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2006-11-01
– latest date by which the national standards conflicting with the amendment have to be withdrawn	(dow)	2009-02-01

This European Standard makes reference to International Standards. Where the International Standard referred to has been endorsed as a European Standard or a home-grown European Standard exists, this European Standard shall be applied instead. Pertinent information can be found on the CENELEC web site.

Endorsement notice

The text of amendment 1:2006 to the International Standard IEC 60464-2:2001 was approved by CENELEC as an amendment to the European Standard without any modification.

INTERNATIONAL STANDARD

IEC 60464-2

2001

AMENDMENT 1
2006-01

Amendment 1

Varnishes used for electrical insulation –

Part 2: Methods of test

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FOREWORD

This amendment has been prepared by IEC technical committee 15: Electrical insulating materials.

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

FDIS	Report on voting
15/253/FDIS	15/280/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 amendment and the base publication will remain unchanged until the maintenance result 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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2 Normative references

Insert, on page 11, the following new references:

ISO 760:1978, *Determination of water – Karl Fischer Method (General method)*

ISO 11890-1:2000, *Paints and varnishes – Determination of volatile organic component (VOC) content – Part 1: Difference method*

ISO 11890-2:2000, *Paints and varnishes – Determination of volatile organic component (VOC) content – Part 2: Gas chromatographic method*

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Add, after subclause 5.8, the following new subclause 5.9:

5.9 pH of water or emulsion based varnish (Type W or Type E)

5.9.1 Equipment

The following equipment shall be used:

– laboratory pH meter and associated glassware;

– buffer solutions corresponding to the extremes of the specified pH range of the varnish within ±0,5;

– thermometer;
– demineralized water.

5.9.2 Procedure

The pH meter shall be used in accordance with the manufacturer's instructions. All pH measurements shall be made with material maintained at 23 °C ± 2 K.

Calibrate the pH meter at the pH values of the buffer solutions. The electrodes and glassware shall be washed in demineralized water between measurements. A repeated measurement on each solution shall agree within 0,1.

Thoroughly wash the glass electrode and immerse to the depth specified by the manufacturer in the varnish maintained at 23 °C ± 2 K to determine the pH. A repeated measurement shall agree within 0,1.

5.9.3 Result

The result is the mean of the final pair of measurements.

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6.5 Electrical properties

Add, on page 35, the following new subclauses:

6.6 Flash rusting of steel by water or emulsion based varnish (Type W or Type E)

Steel sheet panels according to 6.1.1 and coated in accordance with 6.1.3, shall be examined for any evidence of rusting or discoloration of the steel surface, immediately after the curing/drying process. Rusting shall be reported as "present" or "absent".

6.7 Volatile organic compound content of water or emulsion based varnish (Type W or Type E)

The methods described in ISO 11890-1 and ISO 11890-2 should be followed, depending on whether the content is greater or less than 15 %.

6.8 Water content of water or emulsion based varnish (Type W or Type E)

The method described in ISO 760 should be used.