

SLOVENSKI STANDARD SIST EN 60974-4:2011

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Nadomešča:

SIST EN 60974-4:2007

Oprema za obločno varjenje - 4. del: Perodični pregledi in preskusi (IEC 60974-4:2010)

Arc welding equipment - Part 4: Periodic inspection and testing (IEC 60974-4:2010)

Lichtbogenschweißeinrichtungen - Teil 4: Wiederkehrende Inspektion und Prüfung (IEC 60974-4:2010) **iTeh STANDARD PREVIEW**

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Matériel de soudage à l'arc - Partie 4: Inspection et essais périodiques (CEI 60974-4:2010)

SIST EN 60974-4:2011

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Ta slovenski standard je istoveten z: EN 60974-4:2011

ICS:

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EUROPEAN STANDARD

EN 60974-4

NORME EUROPÉENNE EUROPÄISCHE NORM

March 2011

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Supersedes EN 60974-4:2007

English version

Arc welding equipment Part 4: Periodic inspection and testing (IEC 60974-4:2010)

Matériel de soudage à l'arc -Partie 4: Inspection et essais périodiques (CEI 60974-4:2010) Lichtbogenschweißeinrichtungen -Teil 4: Wiederkehrende Inspektion und Prüfung (IEC 60974-4:2010)

This European Standard was approved by CENELEC on 2011-01-02. CENELEC 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 Central Secretariat or to any CENELEC member.

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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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

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

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Foreword

The text of document 26/422/FDIS, future edition 2 of IEC 60974-4, prepared by IEC TC 26, Electric welding, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60974-4 on 2011-01-02.

This European Standard supersedes EN 60974-4:2007.

The main significant technical changes with respect to EN 60974-4:2007 are the following:

- title is amended;
- scope is extended to equipment designed in accordance with EN 60974-6;
- complementary instructions from the manufacturer shall be followed;
- qualification of test personnel is clarified (see 4.1);
- plasma cutting power sources are excluded from no-load voltage test (see 5.6);
- voltage reducing device functional test is simplified (see 6.3);
- supply voltage is recorded in test report (see 7.1).

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

The following dates were fixed:

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- latest date by which the EN has to be implemented at national level by publication of an identical 60974-4:2011 national standard or by endorsement catalog/standards/sist/8d89d75e-3d((dop)5-bfba-2011-10-02 68e1724e8d46/sist-en-60974-4-2011
- latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2014-01-02

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60974-4:2010 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60050-151	-	International Electrotechnical Vocabulary (IEV) - Part 151: Electrical and magnetic devices	-	-
IEC 60050-195	iT	International Electrotechnical Vocabulary (IEV) - Chapter 195: Earthing and protection against electric shock	W	-
IEC 60050-851	-	International Electrotechnical Vocabulary - Part 851: Electric welding	-	-
IEC 60974-1	2005 https://sta	Arc welding equipment - hard yellow a supposed and sixty 8 d89d75e-3d0d-4a Part 1: Welding power sources 68e1/24e8d46/sist-en-609/4-4-2011	EN 60974-1 5-biba-	2005
IEC 60974-6	-	Arc welding equipment - Part 6: Limited duty equipment	EN 60974-6	-
IEC 61557-4	-	Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c Equipment for testing, measuring or monitoring of protective measures - Part 4: Resistance of earth connection and equipotential bonding	EN 61557-4	-

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NORME INTERNATIONALE

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Matériel de soudage à l'arc - SISTEN 60974-42011

Partie 4: Inspection/et essaisapériodiques/sist/8d89d75e-3d0d-4af5-bfba-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ARC WELDING EQUIPMENT -

Part 4: Periodic inspection and testing

FOREWORD

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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60974-4 has been prepared by IEC technical committee 26: Electric welding.

This second edition cancels and replaces the first edition published in 2006. It constitutes a technical revision.

The main significant technical changes with respect to the previous edition are the following:

- title is amended;
- scope is extended to equipment designed in accordance with IEC 60974-6;
- complementary instructions from the manufacturer shall be followed;
- qualification of test personnel is clarified (see 4.1);
- plasma cutting power sources are excluded from no-load voltage test (see 5.6);
- voltage reducing device functional test is simplified (see 6.3);
- supply voltage is recorded in test report (see 7.1).

-4-

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

FDIS	Report on voting	
26/422/FDIS	26/428/RVD	

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The list of all the parts of the IEC 60974 series, under the general title *Arc welding equipment*, can be found on the IEC website.

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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<u>SIST EN 60974-4:2011</u> https://standards.iteh.ai/catalog/standards/sist/8d89d75e-3d0d-4af5-bfba-68e1724e8d46/sist-en-60974-4-2011

ARC WELDING EQUIPMENT -

Part 4: Periodic inspection and testing

1 Scope

This part of IEC 60974 specifies test procedures for periodic inspection and, after repair, to ensure electrical safety. These test procedures are also applicable for maintenance.

This standard is applicable to power sources for arc welding and allied processes designed in accordance with IEC 60974-1 or IEC 60974-6. Stand-alone ancillary equipment designed in accordance with other part of IEC 60974 may be tested in accordance with relevant requirement of this part of IEC 60974.

NOTE 1 The welding power source may be tested with any ancillary equipment fitted that could affect the test results.

This standard is not applicable to testing of new power sources or engine-driven power sources.

NOTE 2 For a power source not built in accordance with IEC 60974-1, see Annex C.

2 Normative references (standards.iteh.ai)

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.

IEC 60050-151, International Electrotechnical Vocabulary (IEV) – Part 151: Electrical and magnetic devices

IEC 60050-195, International Electrotechnical Vocabulary (IEV) – Part 195: Earthing and protection against electric shock

IEC 60050-851, International Electrotechnical Vocabulary (IEV) - Part 851: Electric welding

IEC 60974-1:2005, Arc welding equipment – Part 1: Welding power sources

IEC 60974-6, Arc welding equipment – Part 6: Limited duty manual metal arc welding power sources

IEC 61557-4, Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 4: Resistance of earth connection and equipotential bonding

3 Terms and definitions

For the purposes of this document, the terms and definitions given in the IEC 60050-151, the IEC 60050-195, the IEC 60050-851, the IEC 60974-1, as well as the following, apply.