

Arc welding equipment —

Part 4: In-service inspection and testing

The European Standard EN 60974-4:2007 has the status of a British Standard

ICS 25.160

National foreword

This British Standard was published by BSI. It is the UK implementation of EN 60974-4:2007. It is identical with IEC 60974-4:2006.

The UK participation in its preparation was entrusted to Technical Committee WEE/6, Electric arc welding equipment.

A list of organizations represented on WEE/6 can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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**Arc welding equipment -
Part 4: In-service inspection and testing
(IEC 60974-4:2006)**

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Lichtbogenschweißeinrichtungen -
Teil 4: Instandhaltung und Prüfung
(IEC 60974-4:2006)

This European Standard was approved by CENELEC on 2006-12-01. 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.

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
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Foreword

The text of document 26/340/FDIS, future edition 1 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 2006-12-01.

This standard is to be used in conjunction with EN 60974-1.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2007-09-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2009-12-01

This European Standard covers the essential requirements given in Article 4 of Council Directive 89/655/EEC concerning the minimum safety and health requirements for the use of work equipment by workers at work, as amended by Directive 95/63/EC.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60974-4:2006 was approved by CENELEC as a European Standard without any modification.

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ARC WELDING EQUIPMENT –

Part 4: In-service inspection and testing

1 Scope

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

This standard is applicable to power sources together with ancillary equipment for arc welding, cutting and allied processes built in conformity with IEC 60974-1.

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

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

2 Normative references

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) – Chapter 851: Electric welding*

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

IEC 61557-4, *Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 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 IEC 60050-151, IEC 60050-195, IEC 60050-851, IEC 60974-1, as well as the following, apply.

3.1

periodic inspection and test

examination carried out at specified intervals to reduce the risk of hazard

3.2

maintenance

service carried out at specified intervals to reduce the risk of hazard and failure