

BS EN ISO 9312:2013



BSI Standards Publication

Resistance welding equipment — Insulated pins for use in electrode back-ups (ISO 9312:2013)

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National foreword

This British Standard is the UK implementation of EN ISO 9312:2013. It supersedes BS EN ISO 9312:1995 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee WEE/29, Resistance welding.

A list of organizations represented on this committee 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.

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EUROPEAN STANDARD

EN ISO 9312

NORME EUROPÉENNE

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Supersedes EN ISO 9312:1994

English Version

Resistance welding equipment - Insulated pins for use in electrode back-ups (ISO 9312:2013)

Équipement de soudage par résistance - Fiches isolées
utilisées dans les contre-électrodes (ISO 9312:2013)

Widerstandsschweißeinrichtungen - Isolierende
Zylinderstifte für Unterkupfer (ISO 9312:2013)

This European Standard was approved by CEN on 8 June 2013.

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

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Foreword

This document (EN ISO 9312:2013) has been prepared by Technical Committee ISO/TC 44 “Welding and allied processes” in collaboration with Technical Committee CEN/TC 121 “Welding and allied processes” the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by January 2014, and conflicting national standards shall be withdrawn at the latest by January 2014.

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 9312:1994.

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

Endorsement notice

The text of ISO 9312:2013 has been approved by CEN as EN ISO 9312:2013 without any modification.

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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.

ISO 9312 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 6, *Resistance welding and allied mechanical joining*.

This second edition cancels and replaces the first edition (ISO 9312:1990), of which it constitutes a minor revision.

Resistance welding equipment — Insulated pins for use in electrode back-ups

1 Scope

This International Standard specifies the requirements for insulated pins used to pin parts in the secondary circuit of resistance welding equipment, or other live equipment, which need to be insulated from each other.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 5827, *Spot welding — Electrode back-ups and clamps*

IEC 60893-3-4, *Insulating materials — Industrial rigid laminated sheets based on thermosetting resins for electrical purposes — Part 3-4: Specifications for individual materials — Requirements for rigid laminated sheets based on phenolic resins*

3 Dimensions

The dimensions of the insulated pins shall be in accordance with [Figure 1](#) and [Table 1](#).

Details left unspecified shall be designed as appropriate.

4 Designation

Insulated pins that comply with this International Standard shall be designated as follows (in the order given):

- a) description block (i.e. “insulated pin”);
- b) reference to this International Standard;
- c) pin diameter, d , in millimetres.

EXAMPLE An insulated pin with a diameter $d = 8$ mm is designated as follows:

Insulated pin ISO 9312:—, 8

5 Material

The material shall be hard fabric, coarse weave according to IEC 60893-3-4 — PF CC 201 or IEC 60893-3-4 — PF CC 202.