



**SLOVENSKI STANDARD**  
**SIST EN ISO 9312:1999**

**01-december-1999**

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Resistance welding equipment - Insulated pins for use in electrode back-ups (ISO 9312:1990)

Widerstandsschweißeinrichtungen - Isolierende Zylinderstifte für Unterkupfer (ISO 9312:1990)

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

Equipement de soudage par résistance - Fiches isolées utilisées dans les contre-électrodes (ISO 9312:1990)

[SIST EN ISO 9312:1999](https://standards.iteh.ai/catalog/standards/sist/e3bb1275-0fe8-4afb-8c2f-374e508a0927/sist-en-iso-9312-1999)

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**Ta slovenski standard je istoveten z: EN ISO 9312:1994**

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**ICS:**

25.160.30

Varilna oprema

Welding equipment

**SIST EN ISO 9312:1999**

**en**

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EUROPEAN STANDARD

EN ISO 9312

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1994

ICS 25.160.30

Descriptors: Welding, resistance welding, welding equipment, insulated bushings, pins, mechanics, specifications, dimensions, designation

English version

## Resistance welding equipment - Insulated pins for use in electrode back-ups (ISO 9312:1990)

Equipement de soudage par résistance - Fiches isolées utilisées dans les contre-électrodes (ISO 9312:1990)

Widerstandsschweißeinrichtungen - Insolierende Zylinderstifte für Unterkupfer (ISO 9312:1990)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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# CEN

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels



**Annex ZA (normative)**  
**Normative references to international publications**  
**with their relevant European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 1302	1978	Technical drawings - Method of indicating surface texture	--	--
ISO 1642	1987	Plastics - Industrial laminated sheets based on thermo-setting resins - Specification	--	--
ISO 2768-1	1989	General tolerances - Part 1: Tolerances for linear and angular dimensions without individual tolerance indications	EN 22768-1	1993
ISO 5827	1983	Spot welding - Electrode back-ups and clamps	EN 25827	1992

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# INTERNATIONAL STANDARD

**ISO  
9312**

First edition  
1990-07-15

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

**iTeh STANDARD PREVIEW**  
*Équipement de soudage par résistance — Fiches isolées utilisées dans les contre-  
électrodes*  
**(standards.iteh.ai)**

[SIST EN ISO 9312:1999](#)

<https://standards.iteh.ai/catalog/standards/sist/e3bb1275-0fe8-4afb-8c2f-374e508a0927/sist-en-iso-9312-1999>



Reference number  
ISO 9312 : 1990 (E)

## ISO 9312 : 1990 (E)

## 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.

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.

International Standard ISO 9312 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*.

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International Organization for Standardization

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

## iTeh STANDARD PREVIEW (standards.iteh.ai)

### 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 standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged

to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1302:1978, *Technical drawings — Method of indicating surface texture on drawings.*

ISO 1642:1987, *Plastics — Industrial laminated sheets based on thermosetting resins — Specification.*

ISO 2768-1:1989, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications.*

ISO 5827:1983, *Spot welding — Electrode back-ups and clamps.*