

Resistance spot welding - Male electrode caps (ISO 5830:1984)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 5830:2021 sisaldab Euroopa standardi EN ISO 5830:2021 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 5830:2021 consists of the English text of the European standard EN ISO 5830:2021.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 13.01.2021.	Date of Availability of the European standard is 13.01.2021.
Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.

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English Version

Resistance spot welding - Male electrode caps (ISO
5830:1984)

Soudage par points par résistance - Embouts amovibles
mâles d'électrode (ISO 5830:1984)

Widerstandspunktschweißen -
Elektrodeneinsteckkappen (ISO 5830:1984)

This European Standard was approved by CEN on 6 December 2020.

This European Standard was corrected and reissued by the CEN-CENELEC Management Centre on 20 January 2021.

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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 CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

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European foreword

The text of ISO 5830:1984 has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 5830:2021 by 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of an identical text or by endorsement, at the latest by July 2021, and conflicting national standards shall be withdrawn at the latest by July 2021.

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Endorsement notice

The text of ISO 5830:1984 has been approved by CEN as EN ISO 5830:2021 without any modification.

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 5830 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*.

Resistance spot welding — Male electrode caps

1 Scope and field of application

This International Standard specifies the dimensions and tolerances for male electrode caps for resistance spot welding when a female taper (see ISO 1089) is used to fix the electrode adaptor (see ISO 5829).

It only applies to electrode caps for which the electrode force F_{\max} , given for the diameter d_1 , does not exceed 4,0 kN.

2 References

ISO 1089, *Electrode taper fits for spot welding equipment — Dimensions*.

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

ISO 5182, *Materials for resistance welding electrodes and ancillary equipment*.

ISO 5829, *Resistance spot welding electrode adaptors, female taper 1 : 10*.

3 Dimensions

The dimensions shall be those given in the figures and the table.

4 Designation

Electrode caps covered by this International Standard shall be designated by noting in order :

- the reference to this International Standard;
- the external diameter, d_1 ;
- the length, l_1 .

Example :

Designation for a male electrode cap for spot welding type L, external diameter $d_1 = 16$ mm and length $l_1 = 25$ mm.

Male electrode cap ISO 5830 - L 16 × 25

5 Material

The material shall conform to code A 2/2 of ISO 5182.

6 Marking

The packing shall be marked with the designation laid down in clause 4, but excluding the identity block, for example :

ISO 5830 - L 16 × 25