

Irish Standard I.S. EN ISO 20168:2021

Resistance welding - Locking tapers for electrode holders and electrode caps (ISO 20168:2016)

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I.S. EN ISO 20168:2021

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EUROPEAN STANDARD

EN ISO 20168

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2021

ICS 25.160.20

English Version

Resistance welding - Locking tapers for electrode holders and electrode caps (ISO 20168:2016)

Soudage par résistance - Cônes de serrage pour porteélectrodes et pointes d'électrodes (ISO 20168:2016) Widerstandsschweißen - Selbsthemmende Kegel für Elektrodenhalter und Elektronenkappe (ISO 20168:2016)

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EN ISO 20168:2021 (E)

European foreword

The text of ISO 20168:2016 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 20168:2021 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of an identical text or by endorsement, at the latest by July 2021, and conflicting national standards shall be withdrawn at the latest by July 2021.

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INTERNATIONAL STANDARD

ISO 20168

First edition 2016-09-01

Resistance welding — Locking tapers for electrode holders and electrode caps

Soudage par résistance — Cônes de serrage pour porte-électrodes et pointes d'électrodes



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ISO 20168:2016(E)



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ISO 20168:2016(E)

Foreword

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Resistance welding — Locking tapers for electrode holders and electrode caps

1 Scope

This document specifies the dimensions and tolerances for electrode holders and of spot welding electrode caps, where a locking taper is used.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 5182, Resistance welding — Materials for electrodes and ancillary equipment

ISO 5821, Resistance welding — Spot welding electrode caps

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 17677-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1

locking taper

taper allowing for a tight fit between an electrode holder and the electrode cap as their taper angles differ by 0° 2' 60", ensuring the electrode cap engagement point is at the skirt of the cap and electrode holder

Note 1 to entry: See <u>Figure 1</u>.

Note 2 to entry: Traditionally called "Fisher taper".

Note 3 to entry: During welding, the electrode cap tightens further on the electrode holder.

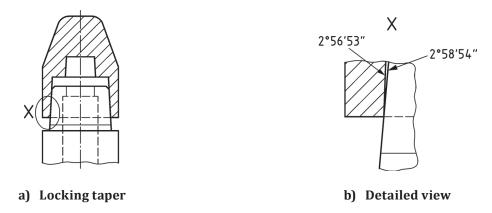


Figure 1 — Principle of a locking taper



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