

Irish Standard I.S. EN ISO 10656:2021&LC:2021

Resistance welding equipment -Transformers - Integrated transformers for welding guns (ISO 10656:2016, Corrected version 2016-08)

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NSAI	T +353 1 807 3800	Sales:
1 Swift Square,	F +353 1 807 3838	T +353 1 857 6730
Northwood, Santry	E standards@nsai.ie	F +353 1 857 6729
Dublin 9	W NSAI.ie	W standards.ie

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### **National Foreword**

I.S. EN ISO 10656:2021&LC:2021 is the adopted Irish version of the European Document EN ISO 10656:2021, Resistance welding equipment - Transformers - Integrated transformers for welding guns (ISO 10656:2016, Corrected version 2016-08)

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# **Correction Notice**

#### **Reference:** EN ISO 10656:2021

Title: Resistance welding equipment - Transformers - Integrated transformers for welding guns (ISO 10656:2016, Corrected version 2016-08)

Work Item: 00121833

Brussels, 2021-02-17

#### Please include the following minor editorial correction(s) in the document related to:

the following language version(s) :

- English French German for the following procedure : Enquiry 2nd Enquiry Parallel Enquiry 2<sup>nd</sup> Parallel Enquiry Formal Vote 2<sup>nd</sup> Formal Vote Parallel Formal Vote 2<sup>nd</sup> Parallel Formal Vote 🗌 UAP TC Approval
  - 2<sup>nd</sup> TC Approval
  - Publication
  - Parallel Publication

It has been brought to our attention that this document, issued on 2021-01-13, requires modification.

ISO has published (Corrected version 2016-08) of ISO 10656:2016.

Titles and Forewords have been updated accordingly for English and French versions.

We apologise for any inconvenience this may cause.

STD3/FO004 (November 2017)

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# EUROPEAN STANDARD NORME EUROPÉENNE

# EN ISO 10656

# **EUROPÄISCHE NORM**

January 2021

ICS 25.160.30; 29.180

**English Version** 

## Resistance welding equipment - Transformers - Integrated transformers for welding guns (ISO 10656:2016, Corrected version 2016-08)

Matériel de soudage par résistance - Transformateurs -Transformateurs incorporés pour pinces à souder (ISO 10656:2016, Version corrigée 2016-08) Widerstandsschweißeinrichtungen - Transformatoren - Integrierte Transformatoren für Schweißzangen (ISO 10656:2016, korrigierte Fassung 2016-08)

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 17 February 2021.

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## **European foreword**

The text of ISO 10656:2016, Corrected version 2016-08 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 10656:2021 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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The text of ISO 10656:2016, Corrected version 2016-08 has been approved by CEN as EN ISO 10656:2021 without any modification.

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# INTERNATIONAL STANDARD

# ISO 10656

Second edition 2016-05-01

Corrected version 2016-08-15

# **Resistance welding equipment** — Transformers — Integrated transformers for welding guns

Matériel de soudage par résistance — Transformateurs — Transformateurs incorporés pour pinces à souder



Reference number ISO 10656:2016(E) ISO 10656:2016(E)



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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="https://www.iso.org/directives">www.iso.org/directives</a>).

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The committee responsible for this document is ISO/TC 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 10656:1996), which has been technically revised. It also incorporates the Technical Corrigendum ISO 10656:1996/Cor. 1:2000.

This corrected version of ISO 10656:2016 incorporates the following corrections:

- the example of a designation in <u>Clause 6</u> has been dated with the year of publication;
- a key has been added to <u>Figure A.1</u>.

Requests for official interpretations of any aspect of this International Standard should be directed to the Secretariat of ISO/TC 44/SC 6 via your national standards body. A complete listing of these bodies can be found at <u>www.iso.org</u>.

## **Resistance welding equipment — Transformers — Integrated transformers for welding guns**

## 1 Scope

This International Standard specifies additional requirements to those given in ISO 5826 for singlephase transformers used in AC welding. It is intended to be used in conjunction with ISO 5826, whose requirements it amends.

## 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 5826:2014, Resistance welding equipment — Transformers — General specifications applicable to all transformers

IEC 60417-DB, Graphical symbols for use on equipment<sup>1</sup>)

### 3 Dimensions and characteristics of transformers

The dimensions and characteristics of transformers shall be in accordance with

- <u>Table 1</u> for 50 Hz transformers,
- <u>Table 2</u> for 60 Hz transformers,
- Figures 1 and 2 for type H transformers, and
- <u>Figures 3</u> and <u>4</u> for type J transformers.

The cooling water flow rate, *Q*, shall be 4 l/min.

The transformers are suitable for duty cycles up to 20 % (see <u>Annex A</u>).

<sup>1)</sup> See the ISO Online browsing platform: available at <u>http://www.iso.org/obp</u>



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