



NSAI
Standards

Irish Standard
I.S. EN ISO 10656:2021

Resistance welding equipment -
Transformers - Integrated transformers for
welding guns (ISO 10656:2016)

I.S. EN ISO 10656:2021

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN ISO 10656:2021 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)

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EUROPEAN STANDARD

EN ISO 10656

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2021

ICS 25.160.30; 29.180

English Version

Resistance welding equipment - Transformers - Integrated transformers for welding guns (ISO 10656:2016)

Matériel de soudage par résistance - Transformateurs - Transformateurs incorporés pour pinces à souder (ISO 10656:2016)

Widerstandsschweißeinrichtungen - Transformatoren - Integrierte Transformatoren für Schweißzangen (ISO 10656:2016)

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

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EN ISO 10656:2021 (E)

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European foreword

The text of ISO 10656:2016 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 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of an identical text or by endorsement, at the latest by July 2021, and conflicting national standards shall be withdrawn at the latest by July 2021.

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Endorsement notice

The text of ISO 10656:2016 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*



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ISO 10656:2016(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.

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 www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is 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 [Clause 6](#) has been dated with the year of publication;
- a key has been added to [Figure A.1](#).

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 www.iso.org.

Resistance welding equipment — Transformers — Integrated transformers for welding guns

1 Scope

This International Standard specifies additional requirements to those given in ISO 5826 for single-phase 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*¹⁾

3 Dimensions and characteristics of transformers

The dimensions and characteristics of transformers shall be in accordance with

- [Table 1](#) for 50 Hz transformers,
- [Table 2](#) for 60 Hz transformers,
- [Figures 1](#) and [2](#) for type H transformers, and
- [Figures 3](#) and [4](#) 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 [Annex A](#)).

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

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