

Irish Standard I.S. EN ISO 13585:2012

Brazing - Qualification test of brazers and brazing operators (ISO 13585:2012)

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English Version

Brazing - Qualification test of brazers and brazing operators (ISO 13585:2012)

Brasage fort - Essais de qualification des braseurs et des opérateurs braseurs en brasage fort (ISO 13585:2012)

Hartlöten - Prüfung von Hartlötern und Bedienern von Hartlöteinrichtungen (ISO 13585:2012)

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EN ISO 13585:2012 (E)

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EN ISO 13585:2012 (E)

Foreword

This document (EN ISO 13585:2012) has been prepared by Technical Committee CEN/TC 121 "Welding", the secretariat of which is held by DIN, in collaboration with Technical Committee ISO/TC 44 "Welding and allied processes".

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of an identical text or by endorsement, at the latest by December 2012, and conflicting national standards shall be withdrawn at the latest by December 2012.

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

This document supersedes EN 13133:2000.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive.

For relationship with EU Directive, see informative Annex ZA, which is an integral part of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Annex ZA (informative)

Relationship between this European Standard and the Essential Requirements of EU Directive 97/23/EC

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide a means of conforming to Essential Requirements of the New Approach Directive 97/23/EC, *Pressure equipment*.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one Member State, compliance with the normative clauses of this standard confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

Table ZA.1 — Correspondence between this European standard and the Directive 97/23/EC

Clauses/Paragraphs of this European standard	Essential requirement of the Directive 97/23/EEC	Comments/Notes
All normative clauses	Annex I, 3.1.2	Permanent joining

WARNING — Other requirements and other EU Directives may be applicable to the products falling within the scope of this standard.

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I.S. EN ISO 13585:2012 INTERNATIONAL STANDARD

ISO 13585

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Brazing — Qualification test of brazers and brazing operators

Brasage fort — Essais de qualification des braseurs et des opérateurs braseurs en brasage fort



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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ISO 13585 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 121, *Welding*, in collaboration with Technical Committee ISO/TC 44, *Welding and allied processes*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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

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Introduction

The purpose of this International Standard is to provide a general set of rules for qualification, independent of product or application.

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ISO 13585:2012(E)

Brazing — Qualification test of brazers and brazing operators

1 Scope

This International Standard specifies basic requirements for the qualification testing of brazers and brazing operators providing conditions for brazing, testing, examination, acceptance criteria and range of qualification for certificates.

NOTE 1 Annex D gives guidelines on general quality requirements for brazing.

NOTE 2 This International Standard does not apply to brazing for aerospace applications covered by ISO 11745^[2].

2 Normative references

The following referenced documents are indispensable for the application 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 857-2, Welding and allied processes — Vocabulary — Part 2: Soldering and brazing processes and related terms

ISO 17672, Brazing — Filler metals

ISO 18279, Brazing — Imperfections in brazed joints

ISO/TR 25901, Welding and related processes — Vocabulary

EN 12797, Brazing — Destructive tests of brazed joints

EN 12799, Brazing — Non-destructive examination of brazed joints

EN 13134, Brazing — Procedure approval

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 857-2, ISO/TR 25901 and the following apply.

3.1

brazer

person who holds and manipulates the device for heating the brazing area by hand

3.2

brazing operator

person who prepares the joint and sets up brazing equipment and thereby has direct influence on the brazed joint quality

NOTE Examples of brazing equipment are mechanized torch holders, furnaces, salt baths, and induction equipment.

3.3

brazing

joining process in which a molten filler material is used that has a liquidus temperature above 450 °C but lower than the solidus temperature of the parent material(s)

NOTE Adapted from ISO 857-2:2005, 3.1.2.



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