STN

### Tavivá na mäkké spájkovanie Skúšobné metódy Časť 16: Stanovenie účinnosti taviva Postup na meranie zmáčavosti (ISO 9455-16: 2019)

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Soft soldering fluxes - Test methods - Part 16: Flux efficacy test, wetting balance method (ISO 9455-16:2019)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/20

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### **English Version**

### Soft soldering fluxes - Test methods - Part 16: Flux efficacy test, wetting balance method (ISO 9455-16:2019)

Flux de brasage tendre - Méthodes d'essai - Partie 16: Essai d'efficacité du flux, méthode à la balance de mouillage (ISO 9455-16:2019) Flussmittel zum Weichlöten - Prüfverfahren - Teil 16: Bestimmung der Wirksamkeit des Flussmittels, Verfahren zur Messung der Benetzungskraft (ISO 9455-16:2019)

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### EN ISO 9455-16:2019 (E)

| Contents          | Page |
|-------------------|------|
| F                 | 2    |
| European foreword | 3    |

### **European foreword**

This document (EN ISO 9455-16:2019) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with 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of an identical text or by endorsement, at the latest by April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.

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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### **Endorsement notice**

The text of ISO 9455-16:2019 has been approved by CEN as EN ISO 9455-16:2019 without any modification.

# INTERNATIONAL STANDARD

ISO 9455-16

Third edition 2019-09

## Soft soldering fluxes — Test methods —

Part 16: Flux efficacy test, wetting balance method

Flux de brasage tendre — Méthodes d'essai — Partie 16: Essai d'efficacité du flux, méthode à la balance de mouillage



ISO 9455-16:2019(E)



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| Con    | ents                                                                                                                                                       | Page |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Forew  | ord                                                                                                                                                        | iv   |
| 1      | Scope                                                                                                                                                      | 1    |
| 2      | Normative references                                                                                                                                       | 1    |
| 3      | Terms and definitions                                                                                                                                      | 1    |
| 4      | Symbols                                                                                                                                                    |      |
| 5      | Principle                                                                                                                                                  |      |
| 6      | Reagents                                                                                                                                                   |      |
|        | Apparatus                                                                                                                                                  |      |
| 7      | ••                                                                                                                                                         |      |
| 8      | Test pieces                                                                                                                                                |      |
| 9      | Procedure                                                                                                                                                  |      |
|        | 9.1 Preparation of the test pieces                                                                                                                         |      |
|        | 9.1.1 Cleaning                                                                                                                                             |      |
|        | 9.1.2 Ageing the surface by sulfidation process                                                                                                            |      |
|        | 9.1.3 Steam ageing the surface 9.1.4 Damp-heat, steady-state ageing                                                                                        |      |
|        | 9.2 Test method                                                                                                                                            |      |
| 10     | Reference value using standard flux                                                                                                                        |      |
| 11     | Presentation of results                                                                                                                                    | 5    |
| 12     | Calculation and expression of results                                                                                                                      | 6    |
| 13     | Test report                                                                                                                                                |      |
| Annex  | A (normative) Method for the preparation of standard rosin (colophony) based liquid fluxes having 25 % (by mass) non-volatile content                      |      |
| Annex  | B (normative) Method for the production of test pieces with a controlled-contaminated surface for the wetting balance test (artificial sulfidation method) | 10   |
| Biblio | raphy                                                                                                                                                      | 19   |
|        |                                                                                                                                                            |      |

### **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="www.iso.org/directives">www.iso.org/directives</a>).

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For an explanation of the voluntary nature of standards, 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 <a href="https://www.iso.org/iso/foreword.html">www.iso.org/iso/foreword.html</a>.

This document was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 12, *Soldering materials*.

This third edition cancels and replaces the second edition (ISO 9455-16:2013), of which it constitutes a minor revision.

The main changes compared to the previous edition are as follows:

- Clause 2 has been updated;
- the coding of the fluxes has been updated in accordance with ISO 9454-1:2016;
- the format of this document has been updated.

A list of all parts in the ISO 9455 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <a href="https://www.iso.org/members.html">www.iso.org/members.html</a>.

### Soft soldering fluxes — Test methods —

### Part 16:

### Flux efficacy test, wetting balance method

### 1 Scope

This document specifies a method for the assessment of the efficacy of a soft soldering flux, known as the wetting balance method. It gives a qualitative assessment of the comparative efficacy of two fluxes (for example, a standard and a test flux), based on their capacity to promote wetting of a metal surface by liquid solder. The method is applicable to all flux types in liquid form classified in ISO 9454-1.

NOTE It is hoped that future developments using improved techniques for obtaining a reproducible range of test surfaces will enable this method for assessing flux efficacy to be quantitative. For this reason, several alternative procedures for preparing the surface of the test piece are included in the present method.

### 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 9454-1, Soft soldering fluxes — Classification and requirements — Part 1: Classification, labelling and packaging

IEC 60068-2-20:2008, Environmental testing — Part 2-20: Tests — Test T: Test methods for solderability and resistance to soldering heat of devices with leads

IEC 60068-2-69, Environmental testing — Part 2-69: Tests — Test Te/Tc: Solderability testing of electronic components and printed boards by the wetting balance (force measurement) method

IEC 60068-2-78:2012, Environmental testing — Part 2-78: Tests; Test Cab: Damp heat, steady state

### koniec náhľadu – text ďalej pokračuje v platenej verzii STN