

Soft soldering fluxes - Classification and requirements - Part 2: Performance requirements

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 9454-2:2000 sisaldab Euroopa standardi EN ISO 9454-2:2000 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 12.09.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 9454-2:2000 consists of the English text of the European standard EN ISO 9454-2:2000.</p> <p>This document is endorsed on 12.09.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This part of EN ISO 9454 specifies the performance requirements for fluxes in solid, liquid and paste forms intended for use with solders.</p>	<p>Scope:</p> <p>This part of EN ISO 9454 specifies the performance requirements for fluxes in solid, liquid and paste forms intended for use with solders.</p>
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Võtmesõnad:

English version

Soft soldering fluxes – Classification and requirements

**Part 2: Performance requirements
(ISO 9454-2 : 1998)**

Flux de brasage tendre – Classifica-
tion et caractéristiques – Partie 2:
Prescriptions de performance
(ISO 9454-2 : 1998)

Flussmittel zum Weichlöten – Ein-
teilung und Anforderungen – Teil 2:
Eignungsanforderungen
(ISO 9454-2 : 1998)

This European Standard was approved by CEN on 2000-03-10.

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

International Standard
ISO 9454-2 : 1998 Soft soldering fluxes – Classification and requirements – Part 2: Performance requirements,
which was prepared by ISO/TC 44 ‘Welding and allied processes’ of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 121 ‘Welding’, the Secretariat of which is held by DS, as a European Standard.
This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by October 2000 at the latest.
In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:
Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 9454-2 : 1998 was approved by CEN as a European Standard without any modification.
NOTE: Normative references to international publications are listed in Annex ZA (normative).

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Introduction

Fluxes assist molten solder to wet metals surfaces to be joined by removing oxides and related contaminants from the solder and surfaces of the parts during soldering. Fluxes also protect surfaces from oxidization and assist wetting of the base metals by molten solder.
Care is necessary when selecting a flux for a particular application, in order to ensure an adequate service life of the assembly. Factors such as the ease of residue removal, corrosiveness, possible health and safety hazards and the efficacy of the flux, should all be considered when making the choice.

1 Scope

This part of ISO 9454 specifies the performance requirements for fluxes in solid, liquid and paste forms intended for use with soft solders.

NOTES

1 ISO 9454-1 specifies the requirements for labelling and packaging as well as the coding system for the classification of the fluxes.

2 Some of the fluxes intended for inert gas and vapour phase soldering may not pass some of the criteria in tables 1 and 2. Requirements for these fluxes should be agreed between the purchaser and the supplier.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 9454-1:1990, *Soft soldering fluxes — Classification and requirements — Part 1: Classification, labelling and packaging.*

ISO 9455-1:1990, *Soft soldering fluxes — Test methods — Part 1: Determination of non-volatile matter, gravimetric method.*

ISO 9455-2:1993, *Soft soldering fluxes — Test methods — Part 2: Determination of non-volatile matter, ebulliometric method.*

ISO 9455-3:1992, *Soft soldering fluxes — Test methods — Part 3: Determination of acid value, potentiometric and visual titration methods.*

ISO 9455-5:1992, *Soft soldering fluxes — Test methods — Part 5: Copper mirror test.*

ISO 9455-6:1995, *Soft soldering fluxes — Test methods — Part 6: Determination and detection of halide (excluding fluoride) content.*

ISO 9455-8:1991, *Soft soldering fluxes — Test methods — Part 8: Determination of zinc content.*

ISO 9455-9:1993, *Soft soldering fluxes — Test methods — Part 9: Determination of ammonia content.*

ISO 9455-10:1998, *Soft soldering fluxes — Test methods — Part 10: Flux efficacy tests, solder spread method.*

ISO 9455-11:1991, *Soft soldering fluxes — Test methods — Part 11: Solubility of flux residues.*

ISO 9455-12:1992, *Soft soldering fluxes — Test methods — Part 12: Steel tube corrosion test.*

ISO 9455-13:1996, *Soft soldering fluxes — Test methods — Part 13: Determination of flux spattering.*

ISO 9455-14:1991, *Soft soldering fluxes — Test methods — Part 14: Assessment of tackiness of flux residues.*