

### SLOVENSKI STANDARD SIST EN 62739-3:2018

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Preskusna metoda za opremo za valovno spajkanje, ki uporablja staljeno spajkalno zlitino brez svinca - 3. del: Napotki za izbiro metod z erozijskim preskušanjem

Test method for erosion of wave soldering equipment using molten lead-free solder alloy - Part 3: Selection guidance of erosion test method

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SIST EN 62739-3:2018

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ICS:

25.160.50 Trdo in mehko lotanje Brazing and soldering

SIST EN 62739-3:2018 en SIST EN 62739-3:2018

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EUROPEAN STANDARD NORME EUROPÉENNE EN 62739-3

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#### **English Version**

Test method for erosion of wave soldering equipment using molten lead-free solder alloy - Part 3: Selection guidance of erosion test methods
(IEC 62739-3:2017)

Méthode d'essai de l'érosion de l'équipement de brasage à la vague utilisant un alliage à braser sans plomb fondu - Partie 3: Document d'orientation pour le choix des méthodes d'essai d'érosion (IEC 62739-3:2017)

Verfahren zur Erosionsprüfung für Wellenlötausrüstungen bei Verwendung von geschmolzener, bleifreier Lotlegierung - Teil 3: Leitfaden für die Auswahl von Verfahren zur Erosionsprüfung (IEC 62739-3:2017)

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This European Standard exists in three official versions (English, French German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions. dards iteh avcatalog standards sixt/5964ab8b-929b-483d-85ae-

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

#### EN 62739-3:2017

#### **European foreword**

The text of document 91/1368/CDV, future edition 1 of IEC 62739-3, prepared by IEC/TC 91 "Electronics assembly technology" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62739-3:2017.

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by publication of an identical national	(dop)	2017-11-10
	standard or by endorsement		

 latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-02-10

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## Annex ZA (normative)

## Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60068-2-20	2008	Environmental testing - Part 2-20: Tests - Test T: Test methods fo solderability and resistance to soldering heat of devices with leads	EN 60068-2-20 or	2008
IEC 61190-1-3	iT	Attachment materials for electronic assembly - Part 1-3: Requirements for electronic grad colder alloys and fluxed and non-fluxed solid solders for electronic soldering applications 10 2 r 0 s. 1 ten. 21		-
IEC 62739-1	2013 https://sta	Test method for erosion of wave soldering equipment using molten lead-free solder alloy 59b223723c80/sist-en-62739-3-2018 Part 1: Erosion test method for metal materials without surface processing		2013
IEC 62739-2	-	Test method for erosion of wave soldering equipment using molten lead-free solder alloy - Part 2: Erosion test method for metal materials with surface processing	EN 62739-2	-

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IEC 62739-3

Edition 1.0 2017-01

## INTERNATIONAL **STANDARD**

Test method for erosion of wave soldering equipment using molten lead-free solder alloy -Part 3: Selection guidance of erosion test methods

SIST EN 62739-3:2018 https://standards.iteh.ai/catalog/standards/sist/5964ab8b-929b-483d-85ae-59b223723c80/sist-en-62739-3-2018

**INTERNATIONAL ELECTROTECHNICAL** COMMISSION

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### CONTENTS

Г	JKEWC	ND	4
1	Scop	oe	6
2	Norn	native references	6
3	Term	ns and definitions	6
4	Gen	eral remarks	7
5	Sele	ction of the appropriate erosion test method	8
	5.1	Correlation between test methods and stresses induced in the field	
	5.2	Recommended test method by materials	
6	Com	mon items for each test method	
	6.1	Specimen preparation	10
	6.2	Solder alloy	
	6.3	Accelerated stress conditions	10
	6.3.1	Test temperature	10
	6.3.2	·	
	6.3.3	9	
	6.4	Dross	
	6.4.1	3	
	6.4.2		11
	6.4.3	B Molten solder volume after dross removal	11
	6.5 6.5.1		
	6.5.2		
	6.5.3	General/standards/standards/standards/sist/5964ab8b-929b-483d-85ae-	1∠ 13
	6.5.4	50b223723c80/cict_en_62730_3_2018	13
7		view of the test methods	
•	7.1	Test methods	
	7.2	Metal material without surface processing	
	7.2.1		
	7.2.2		
	7.3	Metal material with surface processing	16
	7.3.1	Test method	16
	7.3.2	Rotation test at 450 °C	16
	7.3.3	Rotation test at 450 °C with 2 mm bending	17
Ar	nnex A	(informative) Selection of test temperature, test duration and bending stress	18
	A.1	Specimen without surface processing	18
	A.2	Specimen with surface processing	20
Ar	nnex B	(informative) Maximum depth and other measurements	23
	B.1	General	
	B.2	Maximum depth measurement	
Ar		(informative) Erosion mechanism	
	C.1	Specimen without surface processing	
	C.2	Specimen with surface processing	
_	C.3	Further guidance	
Ar		(informative) Thermal acceleration for erosion	
	D.1	Specimen without surface processing	
	D.2	Specimen with surface processing	28

D.3 Further guidance document	30
Bibliography	31
Figure 1 – Schematic example of wave soldering equipment	8
Figure 2 – Example of dross removal tool	11
Figure 3 – Schematic general definition of erosion depth	12
Figure 4 – Schematic definition of erosion depth by focal depth method	12
Figure 5 – Examples of local erosion	13
Figure 6 – Example of evaluation region	13
Figure 7 – Examples with non-erosion area	14
Figure 8 – Examples without a non-erosion area and an example of a cross section	14
Figure 9 – Configuration example of test equipment	15
Figure 10 – Configuration example of test equipment for rotation test at 450 °C with 2 mm bending	17
Figure A.1 – Specimen configuration for preliminary test	18
Figure A.2 – Erosion depth against molten solder temperature	19
Figure A.3 – Erosion depth against rotation speed	19
Figure A.4 – Erosion depth against immersion time	20
Figure C.1 – Erosion mechanism for material with nitriding . FV	27
Figure D.1 – Tin (Sn) diffusion layer growth in the plasma nitriding layer for various stainless steel	29
SIST EN 62739-3:2018	
Table 1 – Location of erosion in the field and examples of problems 3d.85ac	
Table 2 – Correlation between test methods and stresses induced in the field	
Table 3 – Applicable test method depending on the materials	
Table 4 – Test conditions for rotation test at 350 °C	
Table 5 – Test conditions for rotation test at 350 °C	16
Table A.1 – Erosion test results for the materials of gas nitriding and nitrocarburizing	21
Table A.2 – Erosion test results for the materials of coating type surface processing	22
Table B.1 – Measurement methods, features and accuracy	24
Table B.2 – Example of measurement equipment	25
Table D.1 – Plasma nitriding layer peeling off period (incubation period in Figure D.1)	
Table D.2 – Initial growth rate for tin (Sn) diffusion layer	30

#### INTERNATIONAL ELECTROTECHNICAL COMMISSION

### TEST METHOD FOR EROSION OF WAVE SOLDERING EQUIPMENT USING MOLTEN LEAD-FREE SOLDER ALLOY –

#### Part 3: Selection guidance of erosion test methods

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International Standard IEC 62739-3 has been prepared by IEC technical committee 91: Electronics assembly technology.

The text of this International Standard is based on the following documents:

The text of this standard is based on the following documents:

CDV	Report on voting
91/1368/CDV	91/1400/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

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- 5 -

A list of all the parts in the IEC 62739 series, under the general title *Test method for erosion* of wave soldering equipment using molten lead-free solder alloy, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

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### TEST METHOD FOR EROSION OF WAVE SOLDERING EQUIPMENT USING MOLTEN LEAD-FREE SOLDER ALLOY –

#### Part 3: Selection guidance of erosion test methods

#### 1 Scope

This part of IEC 62739 describes the selection methodology of an appropriate evaluating test method for the erosion of the metal materials without or with surface processing intended to be used for lead-free wave soldering equipment as a solder bath and other components which are in contact with the molten solder.

#### 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.

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

#### (standards.iteh.ai)

IEC 61190-1-3, Attachment materials for electronic assembly – Part 1-3: Requirements for electronic grade solder alloys and fluxed and non-fluxed solder for electronic soldering applications <a href="https://standards.iteh.ai/catalog/standards/sist/5964ab8b-929b-483d-85ae-">https://standards.iteh.ai/catalog/standards/sist/5964ab8b-929b-483d-85ae-</a>

59b223723c80/sist-en-62739-3-2018

IEC 62739-1:2013, Test method for erosion of wave soldering equipment using molten lead-free solder alloy – Part 1: Erosion test method for metal materials without surface processing

IEC 62739-2, Test method for erosion of wave soldering equipment using molten lead-free solder alloy – Part 2: Erosion test method for metal materials with surface processing

#### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

#### 3.1

#### erosion

phenomenon where a base material is dissolved and made thinner by coming into contact with molten solder

[SOURCE: IEC 62739-1:2013, 3.1]