



# INTERNATIONAL STANDARD

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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**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## CONTENTS

|   |    |
|---|----|
| FOREWORD.....   | 4  |
| 1 Scope.....  | 6  |
| 2 Normative references .....  | 6  |
| 3 Terms and definitions .....   | 6  |
| 4 General remarks.....  | 7  |
| 5 Selection of the appropriate erosion test method .....                                    | 8  |
| 5.1 Correlation between test methods and stresses induced in the field.....                 | 8  |
| 5.2 Recommended test method by materials.....   | 9  |
| 6 Common items for each test method.....  | 10 |
| 6.1 Specimen preparation .....  | 10 |
| 6.2 Solder alloy.....   | 10 |
| 6.3 Accelerated stress conditions.....  | 10 |
| 6.3.1 Test temperature .....  | 10 |
| 6.3.2 Rotation speed .....  | 10 |
| 6.3.3 Bending stress to the specimen .....  | 11 |
| 6.4 Dross.....  | 11 |
| 6.4.1 Dross generation and removal interval.....  | 11 |
| 6.4.2 Dross removal method.....   | 11 |
| 6.4.3 Molten solder volume after dross removal.....   | 11 |
| 6.5 Erosion depth measurement method .....  | 11 |
| 6.5.1 Post test treatment .....   | 11 |
| 6.5.2 Local erosion depth .....   | 12 |
| 6.5.3 General (uniform) erosion depth .....   | 13 |
| 6.5.4 Evaluation .....  | 14 |
| 7 Overview of the test methods .....  | 14 |
| 7.1 Test methods .....  | 14 |
| 7.2 Metal material without surface processing.....  | 14 |
| 7.2.1 General .....   | 14 |
| 7.2.2 Rotation test at 350 °C .....   | 15 |
| 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 |
| Annex 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 |
| Annex B (informative) Maximum depth and other measurements .....                            | 23 |
| B.1 General.....  | 23 |
| B.2 Maximum depth measurement .....   | 23 |
| Annex C (informative) Erosion mechanism.....  | 26 |
| C.1 Specimen without surface processing .....   | 26 |
| C.2 Specimen with surface processing .....  | 26 |
| C.3 Further guidance.....   | 27 |
| Annex D (informative) Thermal acceleration for erosion .....                                | 28 |
| D.1 Specimen without surface processing .....   | 28 |
| 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<br>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 .....   | 27 |
| Figure D.1 – Tin (Sn) diffusion layer growth in the plasma nitriding layer for various<br>stainless steel..... | 29 |
|  |    |
| Table 1 – Location of erosion in the field and examples of problems.....                                       | 8  |
| Table 2 – Correlation between test methods and stresses induced in the field .....                             | 9  |
| Table 3 – Applicable test method depending on the materials .....  | 9  |
| Table 4 – Test conditions for rotation test at 350 °C.....   | 16 |
| 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) .....                  | 29 |
| 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

### FOREWORD

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| 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.

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.

# 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*

IEC 61190-1-3, *Attachment materials for electronic assembly – Part 1-3: Requirements for electronic grade solder alloys and fluxed and non-fluxed solid solder for electronic soldering applications*

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*