

<b>STN</b>	<b>Stanovenie obsahu určených látok v elektrotechnických výrobkoch</b> <b>Časť 2: Demontáž, oddelenie a mechanická príprava vzoriek</b>	<b>STN EN IEC 62321-2</b>  34 6705
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Determination of certain substances in electrotechnical products - Part 2: Disassembly, disjointment and mechanical sample preparation

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. 12/21

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Supersedes EN 62321-2:2014 and all of its amendments  
and corrigenda (if any)

English Version

**Determination of certain substances in electrotechnical products  
- Part 2: Disassembly, disjointment and mechanical sample  
preparation  
(IEC 62321-2:2021)**

Détermination de certaines substances dans les produits  
électrotechniques - Partie 2: Démontage, défabrication et  
préparation mécanique de l'échantillon  
(IEC 62321-2:2021)

Verfahren zur Bestimmung von bestimmten Substanzen in  
Produkten der Elektrotechnik - Teil 2: Demontage,  
Zerlegung und mechanische Probenvorbereitung  
(IEC 62321-2:2021)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## EN IEC 62321-2:2021 (E)

### European foreword

The text of document 111/619/FDIS, future edition 2 of IEC 62321-2, prepared by IEC/TC 111 “Environmental standardization for electrical and electronic products and systems” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62321-2:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022-07-04
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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 62554:2011 NOTE Harmonized as EN 62554:2011 (not modified)

IEC 63000:2016 NOTE Harmonized as EN IEC 63000:2018 (not modified)

IEC 62137-1-2:2007 NOTE Harmonized as EN 62137-1-2:2007 (not modified)

IEC 62239-1:2018 NOTE Harmonized as EN IEC 62239-1:2018 (not modified)

## Annex ZA (normative)

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

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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**Determination of certain substances in electrotechnical products –  
Part 2: Disassembly, disjointment and mechanical sample preparation**

**Détermination de certaines substances dans les produits électrotechniques –  
Partie 2: Démontage, défabrication et préparation mécanique de l'échantillon**



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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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**Determination of certain substances in electrotechnical products –  
Part 2: Disassembly, disjointment and mechanical sample preparation**

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## CONTENTS

FOREWORD.....	5
INTRODUCTION.....	7
1 Scope.....	8
2 Normative references .....	8
3 Terms, definitions and abbreviated terms .....	9
3.1 Terms and definitions.....	9
3.2 Abbreviated terms.....	9
4 Introduction to sampling .....	10
4.1 Introductory remarks.....	10
4.2 Requirements for certain substances .....	10
4.3 Complexity of electrotechnical products and related challenges .....	11
4.4 Sampling procedure .....	12
4.5 Scope of the analysis.....	13
4.6 Purpose of the analysis.....	14
4.7 Testing strategy .....	14
5 Sampling plan.....	15
5.1 Introductory remarks.....	15
5.2 Sampling of a complete product.....	15
5.3 Partial disassembly.....	16
5.4 Complete disassembly .....	16
5.5 Partial disjointment .....	16
5.6 Complete disjointment .....	16
5.7 Test sample considerations.....	17
5.7.1 Introductory remarks.....	17
5.7.2 Required sample size .....	17
5.7.3 Sample size versus detection limit .....	18
5.7.4 Composite sample considerations.....	19
5.7.5 Non-uniform "homogeneous materials" .....	19
5.7.6 Determination of sampling of homogeneous materials from different positions.....	21
6 Conclusions and recommendations for sampling .....	21
7 Mechanical sample preparation .....	21
7.1 Overview.....	21
7.1.1 Field of application .....	21
7.1.2 Quality assurance.....	22
7.2 Apparatus, equipment and materials .....	22
7.3 Procedure.....	23
7.3.1 General .....	23
7.3.2 Manual cutting .....	23
7.3.3 Coarse grinding or milling.....	23
7.3.4 Homogenizing.....	23
7.3.5 Fine grinding or milling .....	23
7.3.6 Very fine grinding of polymers and organic materials .....	24
Annex A (informative) Examples of procedures for sampling and disjointment .....	25
Annex B (informative) Probability of the presence of certain substances.....	33
Annex C (informative) Composite testing and sampling.....	37



C.1	Introductory remarks .....	37
C.2	Calculated maximum concentration for a composite sample based on detection limit .....	37
C.3	Required detection limit for a composite sample based on the maximum allowable concentration .....	38
Annex D (informative)	Tools used in sampling.....	40
Annex E (informative)	Examples of mobile phone disassembly and disjointment .....	41
E.1	General.....	41
E.2	Partial disassembly without tools – Mobile phone type A.....	41
E.3	Partial disassembly with simple tools – Mobile phone type B.....	43
E.4	Complete disassembly – Mobile phone type B .....	44
E.5	Partial disjointment – Mobile phone type B.....	45
E.6	Complete disjointment – Examples of disjointment of small electronic parts .....	46
E.7	Complete disjointment of integrated circuit lead frame package .....	48
E.8	Complete disjointment of ball grid array (BGA) package.....	48
E.8.1	General .....	48
E.8.2	Solder ball removal from BGA package – Hand removal procedure.....	49
E.8.3	Solder ball removal from BGA package – Solder ball shear procedure.....	50
Bibliography.....		51
Figure 1 – Generic iterative procedure for sampling .....		12
Figure 2 – Cross-section of a 900 µm wide lead oxide-based resistor (SMD) .....		20
Figure A.1 – Methodology for sampling and disjointment.....		26
Figure A.2 – Sampling of DVD player.....		27
Figure A.3 – Sampling of LCD TV .....		28
Figure A.4 – Sampling of PDA .....		29
Figure A.5 – Sampling of desk fan .....		30
Figure A.6 – Sampling of parts – Thick film resistor .....		31
Figure A.7 – Sampling of parts – SMD potentiometer .....		32
Figure D.1 – Hot gas gun for removing electronic parts.....		40
Figure D.2 – Vacuum pin to remove target electronic devices .....		40
Figure E.1 – Mobile phone type A with battery charger and camera lens cap .....		41
Figure E.2 – Mobile phone type A with battery and back cover removed .....		42
Figure E.3 – Partial disassembly of a mobile phone (type B) into its major parts .....		43
Figure E.4 – Complete disassembly of key pad.....		44
Figure E.5 – Complete disassembly of bottom housing .....		44
Figure E.6 – Complete disassembly of other housing or frame .....		45
Figure E.7 – Parts of the TFT display of the mobile phone (type B) after partial disjointment .....		45
Figure E.8 – Parts of the main PCB of the mobile phone (type B) after partial disjointment .....		46
Figure E.9 – Disjointment of lead frame .....		48
Figure E.10 – BGA package prior to disjointment .....		49
Figure E.11 – BGA package disjointed by hand removal procedure.....		49
Figure E.12 – Solder ball material collected from BGA using hand removal procedure .....		50
Figure E.13 – BGA solder ball removal using ball shear procedure .....		50

Table 1 – Minimum number of lead frame samples required for analytical testing .....	17
Table 2 – Levels of a certain substance (e.g. Pb) in a composite sample .....	19
Table B.1 – Probability of the presence of certain substances in materials and parts used in electrotechnical products .....	33
Table B.2 – Probability of the presence of additional certain substances in polymeric materials.....	36
Table C.1 – Calculated maximum concentration for a composite sample based on detection limit .....	38
Table C.2 – Required detection limit for a composite sample based on the maximum allowable concentration .....	39
Table E.1 – Possible certain substances or screening substances from a mobile phone (type A).....	42
Table E.2 – Possible certain substances in major parts of the mobile phone (type B).....	43
Table E.3 – Examples of disjointment for typical small electronic parts .....	47

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DETERMINATION OF CERTAIN SUBSTANCES  
IN ELECTROTECHNICAL PRODUCTS –****Part 2: Disassembly, disjointment and mechanical sample preparation**

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IEC 62321-2 has been prepared by IEC technical committee 111: Environmental standardization for electrical and electronic products and systems. It is an International Standard.

This second edition cancels and replaces the first edition published in 2013. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Reference to the IEC 62321 series instead of to a list of individual parts of the IEC 62321 series.
- b) Update of the flow chart in Figure 1. Restructure of Clause 4 and update of examples in Annex A.

- c) Adjustment of the risk levels of certain parts and materials to reflect the recent technology development and material change. Update of Table B.1 to include the risk levels of phthalates. Creation of Table B.2 for other substances (e.g. HBCDD, PAH) in polymeric materials.

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

FDIS	Report on voting
111/619/FDIS	111/628/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

A list of all parts in the IEC 62321 series, published under the general title *Determination of certain substances in electrotechnical products*, 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 [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

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## INTRODUCTION

The widespread use of electrotechnical products has drawn increased attention to their impact on the environment. In many countries this has resulted in the adaptation of regulations affecting wastes, substances and energy use of electrotechnical products.

The use of certain substances in electrotechnical products is a source of either concern or importance in current and proposed regional legislations.

The purpose of the IEC 62321 series is therefore to provide test methods that will allow the electrotechnical industry to determine the levels of certain substances in electrotechnical products on a consistent global basis. This document, as an important part of the IEC 62321 series, covers strategies of sampling along with the mechanical preparation.

**WARNING – Persons using this document should be familiar with normal laboratory practice. This document does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.**

## DETERMINATION OF CERTAIN SUBSTANCES IN ELECTROTECHNICAL PRODUCTS –

### Part 2: Disassembly, disjointment and mechanical sample preparation

#### 1 Scope

This part of IEC 62321 provides strategies of sampling along with the mechanical preparation of samples from electrotechnical products. These samples can be used for analytical testing to determine the levels of certain substances as described in the test methods in other parts of the IEC 62321 series. Restrictions for substances will vary between geographic regions and can be updated on a regular basis. This document describes a generic process for obtaining and preparing samples prior to the determination of any substance of concern.

This document does not provide:

- full guidance on each and every product that could be classified as electrotechnical product. Since there is a huge variety of electrotechnical parts, with various structures and compositions, along with the continuous innovations in the industry, it is unrealistic to attempt to provide procedures for the disjointment of every type of part;
- guidance regarding other routes to gather additional information on certain substances in a product, although the information collected has relevance to the sampling strategies in this document;
- safe disassembly and mechanical disjointment instructions related to electrotechnical products (e.g. mercury-containing switches) and the recycling industry (e.g. how to handle CRTs or the safe removal of batteries). See IEC 62554 [1]<sup>1</sup> for the disjointment and mechanical sample preparation of mercury-containing fluorescent lamps;
- sampling procedures for packaging and packaging materials;
- analytical procedures to measure the levels of certain substances. This is covered by other standards (e.g. other parts of the IEC 62321 series), which are referred to as "test standards" in this document;
- guidelines for assessment of compliance.

This document has the status of a horizontal standard in accordance with IEC Guide 108 [2].

#### 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 62321 (all parts), *Determination of certain substances in electrotechnical products*

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<sup>1</sup> Numbers in square brackets refer to the bibliography.