SVENSK STANDARD SS-EN 62321-2



Fastställd 2014-06-11

Utgåva 1 Sida 1 (1+50) Ansvarig kommitté SEK TK 111

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Bestämning av vissa ämnen i elektriska och elektroniska produkter – Del 2: Demontering, isärtagning och mekanisk provberedning

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

Som svensk standard gäller europastandarden EN 62321-2:2014. Den svenska standarden innehåller den officiella engelska språkversionen av EN 62321-2:2014.

Nationellt förord

Europastandarden EN 62321-2:2014

består av:

- europastandardens ikraftsättningsdokument, utarbetat inom CENELEC
- IEC 62321-2, First edition, 2013 Determination of certain substances in electrotechnical products - Part 2: Disassembly, disjointment and mechanical sample preparation

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN 62321, utgåva 1, 2009 gäller ej 2016-11-15.

Standarden ersätter avsnitt 5 i SS-EN 62321, utgåva 1, 2009.

ICS 13.020.00; 43.040.10

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Det finns många fördelar med att ha gemensamma tekniska regler för bl a säkerhet, prestanda, dokumentation, utförande och skötsel av elprodukter, elanläggningar och metoder. Genom att utforma sådana standarder blir säkerhetskraven tydliga och utvecklingskostnaderna rimliga samtidigt som marknadens acceptans för produkten eller tjänsten ökar.

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EUROPEAN STANDARD

EN 62321-2

NORME EUROPÉENNE EUROPÄISCHE NORM

April 2014

ICS 13.020; 43.040.10

Supersedes EN 62321:2009 (partially)

English version

Determination of certain substances in electrotechnical products - Part 2: Disassembly, disjointment and mechanical sample preparation (IEC 62321-2:2013)

Détermination de certaines substances dans les produits électrotechniques - Partie 2: Démontage, désassemblage et préparation mécanique de l'échantillon (CEI 62321-2:2013)

Verfahren zur Bestimmung von bestimmten Substanzen in Produkten der Elektrotechnik -

Teil 2: Demontage, Zerlegung und mechanische Probenvorbereitung (IEC 62321-2:2013)

This European Standard was approved by CENELEC on 2013-11-15. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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

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.

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CENELEC

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

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Ref. No. EN 62321-2:2014 E

Foreword

The text of document 111/301/FDIS, future edition 1 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 62321-2:2014.

The following dates are fixed:

•	latest date by which the document has	(dop)	2014-10-25
	to be implemented at national level by		
	publication of an identical national		
	standard or by endorsement		
•	latest date by which the national	(dow)	2016-11-15
	standards conflicting with the		
	document have to be withdrawn		

EN 62321-2:2014 is a partial replacement of EN 62321:2009, forming a structural revision and generally replacing Clause 5 and incorporating IEC/PAS 62596:2009 [1]¹⁾ which will be withdrawn upon publication of IEC 62321-2.

Future parts in the EN 62321 series will gradually replace the corresponding clauses in EN 62321:2009. Until such time as all parts are published, however, EN 62321:2009 remains valid for those clauses not yet re-published as a separate part.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 62321-2:2013 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 62554	NOTE	Harmonised as EN 62554 (not modified).
IEC 62542	NOTE	Harmonised as EN 62542 (not modified).
IEC 62321-6	NOTE	Harmonised as EN 62321-6 (not modified).
IEC 62321-7-1	NOTE	Harmonised as EN 62321-7-1 (not modified).
IEC 62137-1-2	NOTE	Harmonised as EN 62137-1-2 (not modified).

¹⁾ Numbers in square brackets refer to the Bibliography.

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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 62321-1	-	Determination of certain substances in electrotechnical products - Part 1: Introduction and overview	EN 62321-1 า	-
IEC 62321-3-1	-	Determination of certain substances in electrotechnical products - Part 3-1: Screenin electrotechnical products for lead, mercury, cadmium, total chromium and total bromine using X-ray Fluorescence Spectrometry	EN 62321-3-1 g	-
IEC 62321-3-2	-	Determination of certain substances in electrotechnical products - Part 3-2: Screenin of total bromine in electric and electronic products by combustion-ion chromatography (C-IC)	EN 62321-3-2 g	-
IEC 62321-4	-	Determination of certain substances in electrotechnical products - Part 4: Determination of mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS	EN 62321-4	-
IEC 62321-5	-	Determination of certain substances in electrotechnical products - Part 5: Determination of cadmium, lead and chromium in polymers and electronics, and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS	EN 62321-5	-

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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 (e.g. lead (Pb), cadmium (Cd) and polybrominated diphenyl ethers (PBDEs)) in electrotechnical products, is a source of concern in current and proposed regional legislation.

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 of concern in electrotechnical products on a consistent global basis.

WARNING – Persons using this International Standard should be familiar with normal laboratory practice. This standard 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, electronic assemblies and electronic components. 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 IEC 62321. Restrictions for substances will vary between geographic regions and from time to time. This Standard describes a generic process for obtaining and preparing samples prior to the determination of any substance which are under concern.

This standard does not provide:

- full guidance on each and every product that could be classified as electrotechnical equipment. Since there is a huge variety of electrotechnical components, with various structures and processes, along with the continuous innovations in the industry, it is unrealistic to attempt to provide procedures for the disjointment of every type of component;
- 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 standard;
- 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 [2] for the disjointment and mechanial sample preparation of mercury-containing fluorescent lamps;
- the definition of a "unit" as the sample;
- sampling procedures for packaging and packaging materials;
- analytical procedures to measure the levels of certain substances. This is covered by other standards (for example other parts of IEC 62321), which are referred to as the "test standard" in this standard;
- quidelines for assessment of compliance.

NOTE Further guidance on assessment procedures is provided by IEC/TR 62476 [3].

2 Normative references

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.

IEC 62321-1, Determination of certain substances in electrotechnical products – Part 1 Introduction and overview

IEC 62321-3-1, Determination of certain substances in electrotechnical products – Part 3-1: Screening – Lead, mercury, cadmium, total chromium and total bromine using X-ray fluorescence spectrometry

IEC 62321-3-2, Determination of certain substances in electrotechnical products – Part 3-2: Screening – Total bromine in polymers and electronics by combustion – Ion chromatography (C-IC)

IEC 62321-4, Determination of certain substances in electrotechnical products – Part 4: Determination of mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS

IEC 62321-5, Determination of certain substances in electrotechnical products — Part 5: Determination of cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES, ICP-AES and ICP-MS ²