

SLOVENSKI STANDARD SIST EN 62474:2012

01-september-2012

Deklaracija materialov za izo	delke elektronske industrije
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Material declaration for products of and for the electrotechnical industry

Materialdeklaration für Produkte der elektrotechnischen Industrie und für die elektrotechnische Industrie

Déclaration de matière pour des produits de et pour l'industrie électrotechnique (standards.iteh.ai)

Ta slovenski standard je istoveten z: EN 62474:2012

https://standards.iteh.ai/catalog/standards/sist/76422191-d21f-43cf-a8fb-

eebf5c1dd2e2/sist-en-62474-2012

ICS:

01.110	Tehnična dokumentacija za izdelke	Technical product documentation
29.020	Elektrotehnika na splošno	Electrical engineering in general
31.020	Elektronske komponente na splošno	Electronic components in general

SIST EN 62474:2012

en

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

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English version

Material declaration for products of and for the electrotechnical industry (IEC 62474:2012)

Déclaration de matière pour des produits de et pour l'industrie électrotechnique (CEI 62474:2012) Materialdeklaration für Produkte der elektrotechnischen Industrie und für die elektrotechnische Industrie (IEC 62474:2012)

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This European Standard was approved by CENELEC on 2012-04-26. 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. eebf5c1dd2e2/sist-en-62474-2012

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

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Foreword

The text of document 111/243/FDIS, future edition 1 of IEC 62474, 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 62474:2012.

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)	2013-01-26
•	latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2015-04-26

This standard refers to a database that is associated with it and that will be maintained by IEC/TC 111. Hence all elements relating to this database are to be disregarded in the context of EN 62474. This applies in particular to Clause 7.

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.

iTeh STEndorsement notice VIEW

The text of the International Standard IEC 62474 2012 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 62430	NOTE	Harmonized as EN 62430.
IEC 82045-1:2001	NOTE	Harmonized as EN 82045-1:2001 (not modified).
IEC 82045-2:2004	NOTE	Harmonized as EN 82045-2:2005 (not modified).
ISO 1043-1:2001	NOTE	Harmonized as EN ISO 1043-1:2001 (not modified).
ISO 1043-2:2000	NOTE	Harmonized as EN ISO 1043-2:2001 (not modified).
ISO 1043-3:1996	NOTE	Harmonized as EN ISO 1043-3:1999 (not modified).
ISO 1043-4:1998	NOTE	Harmonized as EN ISO 1043-4:1999 (not modified).
ISO 9000:2005	NOTE	Harmonized as EN ISO 9000:2005 (not modified).
ISO 14020:2000	NOTE	Harmonized as EN ISO 14020:2001 (not modified).
ISO 14024:1999	NOTE	Harmonized as EN ISO 14024:2000 (not modified).
ISO 14025:2006	NOTE	Harmonized as EN ISO 14025:2010 (not modified).
ISO 14040:2006	NOTE	Harmonized as EN ISO 14040:2006 (not modified).

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.

Publication	Year	Title	<u>EN/HD</u>	Year
IEC 61360-1	-	Standard data elements types with associated classification scheme for electric items - Part 1: Definitions - Principles and methods	EN 61360-1	-
IEC 61360-2	-	Standard data element types with associated classification scheme for electric components - Part 2: EXPRESS dictionary schema	EN 61360-2	-
IEC 61360-5	- iT	Standard data element types with associated classification scheme for electric components Part 5: Extensions to the EXPRESS dictionary schema		-
ISO/IEC directives Supplement	2011	Procedures specific to IEC SIST EN 62474:2012	-	-
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INTERNATIONAL STANDARD

NORME INTERNATIONALE



Material declaration for products of and for the electrotechnical industry (standards.iteh.ai) Déclaration de matière pour des produits de et pour l'industrie électrotechnique

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE



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CONTENTS

FO	REWO	DRD		4
INT	RODI	JCTION		6
1	Scop	e		7
2	Norm	native re	ferences	7
3	Term	s and d	efinitions	8
4			s for material declaration	
	4.1		al	
	4.2		ata requirements	
		4.2.1	Products	
		4.2.2	Product parts	
		4.2.3	Substances or substance groups listed in the IEC 62474 database with a mandatory reporting requirement	
		4.2.4	Other requirements	12
	4.3	Additio	nal requirements	12
		4.3.1	Product parts	12
		4.3.2	Material classes (optional)	12
		4.3.3	Materials (optional)	12
		4.3.4	Substances or substance groups listed in the IEC 62474 database with a mandatory reporting requirement	13
		4.3.5	Substances or substance groups listed in the IEC 62474 database with an optional reporting requirement, as reference substances or substances or substance groups not listed in the IEC 62474 database	13
		4.3.6	https://standards.iteh.ai/catalog/standards/sist/76422191-d21f-43cf-a8fb- Other requirements	14
5	Crite	ria and t	database <u>SIST EN 62474:2012</u> https://standards.iteh.ai/catalog/standards/sist/76422191-d21f-43cf-a8fb- Other requirements eebi5c1dd2e2/sist-en-62474-2012 thresholds for substances and material classes in the IEC 62474	
	datat	base		14
	5.1		al	
	5.2		able substances criteria	
	5.3		al class criteria	16
	5.4		ing threshold levels and reportable applications for declarable nce groups and declarable substances	16
	5.5		old levels for material classes	
	5.6		nce substances in the IEC 62474 database	
6	Data	format	and exchange	17
	6.1	Genera	al	17
	6.2		ormat	
	6.3		xchange	
		6.3.1	Two-way and one-way data exchange	
		6.3.2	Data exchange specification in the IEC 62474 database	
		6.3.3	Additional data exchange requirements	
	• •	6.3.4	XML file	18
	6.4		a for the IEC 62474 database maintenance of data format and nge information	18
7	IEC 6		atabase maintenance	
	7.1	IEC 62	474 database update process	18
	7.2	Reclas	sification and removal of substance groups and substances from the 474 database	
	7.3		nance of data format part of the IEC 62474 database	

Annex A (informative) Examples corresponding to Clause 4 – Requirements for material declaration	20
Annex B (informative) Examples corresponding to Clause 6 – Data format and exchange	31
Annex C (informative) Examples corresponding to Clause 7 – IEC 62474 database management	38
Annex D (informative) Additional information	47
Annex E (informative) Declaration examples as XML files	49
Bibliography	52
Figure 1 – Conceptual diagram for base requirements	10
Figure 2 – Conceptual diagram for additional requirements	10
Figure A.1 – Schematic representation of products versus product parts along the supply chain	29
Figure C.1 – Guidance to validation team on C-1 substance/ substance group change request review	45
Table 1 – Declarable substances criteria	
Table A.1 – Base data requirements – Business information	21
Table A.2 – Example 1 – base data requirements – Substance/substance group	21
information	21 21
Table A.4 – Additional requirements – Product part/material/substance	2 1
group/substance information SISTEN 624/4:2012	22
https://standards.iteh.ai/catalog/standards/sist/76422191-d21f-43cf-a8fb- Table A.5 – Additional requirements	23
Table A.6 – Base data requirements – Business information	24
Table A.7 – Example 2 – Base data requirements – Substance/substance group information	24
Table A.8 – Additional requirements – Business information	24
Table A.9 – Additional requirements – Product part/material/substance group/substance information	25
Table A.10 – Additional Requirements – Material class information	26
Table A.11 – Additional requirements – Business information	26
Table A.12 – Additional requirements – Product part/material/substance group/substance information	27
Table A.13 – Additional requirements – material class information	28
Table B.1 – Data element types of a material declaration	32
Table D.1 – Comparison of IEC 62474 material classes to automotive industry material classes	47

INTERNATIONAL ELECTROTECHNICAL COMMISSION

MATERIAL DECLARATION FOR PRODUCTS OF AND FOR THE ELECTROTECHNICAL INDUSTRY

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62474 has been prepared by IEC Technical Committee 111: Environmental standardization for electrical and electronic products and systems.

A database associated with this document is available at: http://std.iec.ch/iec62474. It contains the list of

- Declarable substance groups and declarable substances
- Reference Substances
- Material classes
- XML schema for data format and exchange and the accompanying developer table

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

FDIS	Report on voting
111/243/FDIS	111/245/RVD

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

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

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

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

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer. (standards.iteh.ai)

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INTRODUCTION

The electrotechnical industry tracks and declares specific information about the material composition of its products for compliance and environmentally conscious design requirements. The electrotechnical industry needs to gather information about the composition of products and product parts that are purchased from suppliers for incorporation into their products. Currently material declarations are driven by individual product manufacturer's specifications and there is no internationally accepted standardization. This results in economic inefficiencies. To simplify requirements across the supply chain and to improve economic efficiencies, it is necessary to standardize the exchange of material composition data and provide requirements for material declarations.

This International Standard benefits the electrotechnical industry by establishing requirements for reporting of substances and materials, standardizing protocols, and facilitating transfer and processing of data.

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MATERIAL DECLARATION FOR PRODUCTS OF AND FOR THE ELECTROTECHNICAL INDUSTRY

1 Scope

This International Standard specifies the procedure, content, and form relating to material declarations for products of companies operating in and supplying the electrotechnical industry. Process chemicals and emissions during product use are not in the scope of this International Standard.

The main intended use of this International Standard is to provide data to downstream manufacturers that:

- allows them to assess products against substance restriction compliance requirements
- they can use in their environmentally conscious design process and across all product life cycle phases

Clause 4 specifies requirements for a material declaration.

Clause 5 specifies the criteria for declarable substances and material classes in the IEC 62474 database associated with this standard. **PREVIEW**

Clause 6 specifies the data to mat and exchange requirements to be included in the IEC 62474 database.

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Clause 7 specifies the process to regularly update and maintain the IEC 62474 database. eebf5c1dd2e2/sist-en-62474-2012

Although this International Standard specifies base requirements, it offers flexibility to product manufacturers and suppliers in the selection of additional requirements or information.

This International Standard does not provide any specific method to capture material composition data. Organizations have the flexibility to determine the most appropriate method to capture material composition data without compromising data utility and quality. This International Standard is intended to allow reporting based on engineering judgment, supplier material declarations, or on sampling and testing.

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 61360-1, Standard data element types with associated classification scheme for electric items – Part 1: Definitions – Principles and methods

IEC 61360-2, Standard data element types with associated classification scheme for electric components – Part 2: EXPRESS dictionary schema

IEC 61360-5, Standard data element types with associated classification scheme for electric components – Part 5: Extensions to the EXPRESS dictionary schema

ISO/IEC Directives Supplement: 2011, Procedures Specific to IEC

3 Terms and definitions

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

3.1

absence declaration

negative declaration

statement that materials, substances or substance groups are not present in the product above their respective, specified threshold

3.2

declarable substance and declarable substance group

substance and substance group that meet the criteria stated in this International Standard and are specified in the IEC 62474 database

Note 1 to entry Such substances and substance groups are listed in the IEC 62474 database with either a mandatory or optional reporting requirement above the specified threshold in the IEC 62474 database.

3.3

homogeneous material

one material of uniform composition throughout or a material, consisting of a combination of materials, that cannot be disjointed or separated into different materials by mechanical actions, such as unscrewing, cutting, crushing, grinding and abrasive processes

3.4 iTeh STANDARD PREVIEW

material

substance or mixture within a product product part en ai)

3.5

SIST EN 62474:2012

material class https://standards.iteh.ai/catalog/standards/sist/76422191-d21f-43cf-a8fbdefined classification of materials that are established in referenced IEC 62474 database for purposes of inventorying aspects of a product, such that no two classes contain the same materials

3.6

mixture

preparation

mixture or solution composed of two or more substances in which they do not react

Note 1 to entry An alloy is treated as a mixture.

3.7

product

any goods or service

Note 1 to entry This general definition of product is in the context of this International Standard limited to any product of the product category "hardware" according to ISO 9000:2005 No. 3.4.2 of and for the electrotechnical and electronic industry (E&E).

3.8

product family

group of products each of which contains the same substances or material at a similar concentration level

Note 1 to entry A common case would be an electrical component supplier having many products of the same substance content that have different electrical values, such as a capacitor, resistor, inductor or an integrated circuit.

3.9 product part sub-unit of a product or another (product) part

Note 1 to entry This is a recursive definition.

3.10

reference substance

individual substance designated as "reference" in the IEC 62474 database

3.11

reportable application

intended use of a substance which determines its relevance to a given scope and the threshold for disclosure

Note 1 to entry This use is defined in the scope of the underlying law or industry standard. Examples are batteries, textiles and wood.

3.12

reporting threshold level

concentration limit at or above which the presence of a substance in a material or product is declared if declaration of the substance is mandatory according to the IEC 62474 database. or if it is agreed on to be declared

3.13

substance

a chemical element and its compounds in the natural state or obtained by any manufacturing process, including any additive necessary to preserve its stability and any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance of changing its composition REV E

[SOURCE: Globally Harmonized System of Classification and Labelling (GHS):2003, Chapter 1.2, Definitions and Abbreviations

3.14

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https://standards.iteh.ai/catalog/standards/sist/76422191-d21f-43cf-a8fbsubstance group

one or more substances, where in the case of multiple substances they share at least one chemical sub-structure, or chemical or physical property under a generic name

3.15

validation team

permanent, "executive", group of experts appointed by and acting as delegates on behalf of their National Committees to validate proposed items and vote for their release as part of a database standard

Note 1 to entry All P-members have the right and duty to appoint their own member of the team. The validation team evaluates proposals and votes, using the normal database procedure, on items on behalf of their National Committees. The validation team reports to the technical committee or subcommittee.

Note 2 to entry The described procedure asks for very short response times from the validation team members. For this reason, the National Committees should appoint one or more deputies that can take over the task when the designated person, for any reason, is absent (travel, business, etc.).

Note 3 to entry It is up to the National Committee to decide for how long time a member should be appointed, and also to organize the possible supporting network of experts on National level.

Note 4 to entry The secretariat manages the validation team.

[SOURCE: ISO/IEC Directives Supplement: 2011, Annex J]

4 **Requirements for material declaration**

4.1 General

This clause describes the base requirements and additional requirements for a material declaration. Subclause 4.2 describes the base data requirements and Subclause 4.3