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General method to declare the use of critical raw materials in energy-related products

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 45558:2019 sisaldab Euroopa standardi EN 45558:2019 ingliskeelset teksti.	This Estonian standard EVS-EN 45558:2019 consists of the English text of the European standard EN 45558:2019.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 01.03.2019.	Date of Availability of the European standard is 01.03.2019.
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ICS 13.020.30, 29.020, 31.020

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ICS 13.020.30; 29.020; 31.020

English Version

## General method to declare the use of critical raw materials in energy-related products

Méthode générale de déclaration de l'utilisation de matières premières critiques dans les produits liés à l'énergie

Allgemeines Verfahren zur Deklaration der Verwendung kritischer Rohstoffe in energieverbrauchsrelevanten Produkte

This European Standard was approved by CENELEC on 6 February 2019. CEN and 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 CEN and 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 CEN and 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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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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## European foreword

This document [EN 45558:2019] has been prepared by CEN/CLC/JTC 10 "Energy-related products - Material Efficiency Aspects for Ecodesign".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-02-06
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2022-02-06

This document has been prepared under a standardization request given to CEN and CENELEC by the European Commission and the European Free Trade Association

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

The dual logo CEN-CENELEC standardization deliverables, in the numerical range of 45550 – 45559, have been developed under standardization request M/543 of the European Commission and are intended to potentially apply to any product within the scope of the Directive 2009/125/EC concerning energy-related products (ErP).

Topics covered in the above standardization request are linked to the following material efficiency aspects:

- a) Extending product lifetime;
- b) Ability to reuse components or recycle materials from products at end-of-life;
- c) Use of reused components and/or recycled materials in products.

These standards are general in nature and describe or define fundamental principles, concepts, terminology or technical characteristics. They can be cited together with other product-specific, or product-group, standards e.g. developed by product technical committees.

This document is intended to be used by manufacturers for assessing products but can also be used by product technical committees when producing horizontal, generic, product-specific, or product-group, standards.

## Introduction

Raw materials are at the core of concepts such as resource efficiency and circular economy, which are crucial to the European economy and essential to maintaining and improving the quality of life. Securing reliable and unhindered access to certain raw materials is a growing concern within the European Union (EU) and across the globe. To address this challenge, the European Commission has created a list of critical raw materials (CRMs). CRMs combine a high economic importance to the EU with a high risk associated with their supply, both of which are determined according to an objective methodology [1]. The list of CRMs is regularly updated [2]. The list current at the time of publication is provided in Annex C (C.1).

The availability of information on the use of CRMs in energy-related products (ErP) is intended to improve the exchange of information e.g. for recycling purposes.

CRMs are identified as a priority area of the European Commission's Circular Economy Action Plan [3]. Altogether, the list of CRMs and related initiatives (including this one) are expected to:

- Contribute to the implementation of the EU industrial policy and strengthen industrial competitiveness;
- Stimulate production of CRMs (including from secondary sources) and the launch of new mining activities in the EU;
- Monitor issues on CRMs to identify priority actions (related for example to trade, research and innovation, circular economy).

As information on the use of CRMs in energy-related products by Member States and industry is still very scarce, efforts need to be made to acquire such knowledge. The objective of this document is to provide a general methodology for declaration of the use of CRMs in energy-related products in support of the implementation of the Ecodesign Directive (2009/125/EC) [4] in product-specific measures. Additionally, this document supports the implementation of the Raw Materials Initiative by the EU [5].

This document specifies a method for the declaration of CRMs, based on EN IEC 62474. Therefore, this document will be essential in supporting manufacturers of energy-related products to obtain information and report on the use of certain CRMs needed to comply with specific requirements in product-specific legislations in the future.

This document is linked to two other standards, prEN 45555 [6] and FprEN 45559. In relation to the first, "*General methods for assessing the recyclability and recoverability of energy-related products*", the information to be gathered on CRMs, with the support of this document, can be used during recycling and recovery processes. In respect to the second, "*Methods for providing information relating to material efficiency aspects of energy-related products*", methods are provided that can be applied in the provision of information on material efficiency aspects, including CRMs.

In view of the complexity of the matters dealt with in this document, additional background information is provided in Annex C. It is, therefore, strongly recommended for clarity, that users refer to this Annex whilst using this document.

## 1 Scope

The main intended use of this document is to provide a means for information on the use of CRMs to be exchanged up and down the supply chain and with other relevant stakeholders.

Potential users of this document are any public, private or social enterprises involved in the production of ErP, such as manufacturers of energy-related products (including SMEs) and other organisations in the product supply chain. It is also relevant to European market surveillance and trade authorities as well as European policy makers.

This document is horizontal in nature, and can be applied directly to any type of energy-related product.

This document proposes a standardized format for reporting use of CRMs in energy-related products by applying the EN IEC 62474 materials declaration standard. However, this document does not provide or determine any specific method or tool to collect CRM data.

Process chemicals, emissions during product manufacturing and packaging are not in scope of this document.

## 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.

EN 45559, *Methods for providing information relating to material efficiency aspects of energy-related products*

EN IEC 62474,<sup>1</sup> *Material declaration for products of and for the electrotechnical industry*

## 3 Terms, definitions and abbreviations

### 3.1 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>

NOTE See CEN-CLC/TR 45550 [7] for additional definitions related to material efficiency of ErP.

#### 3.1.1

##### **critical raw material**

##### **CRM**

materials which, according to a defined classification methodology, are economically important, and have a high-risk associated with their supply

Note 1 to entry: for the purpose of this document, CRMs are the ones listed in annex 1 of {COM(2017) 490 final} [2]. Future updates to this list will apply and replace former versions of this list.

#### 3.1.2

##### **regulated critical raw material**

##### **regulated CRM**

critical raw material for which specific regulatory requirement has been set

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<sup>1</sup> Under preparation. Stage at the time of publication: IEC 62474:2018 PRV, (Pre release version), (FprEN IEC 62474:2018).