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Mechanical products — Order of magnitude of key environmental data

Táto technická normalizačná informácia obsahuje anglickú verziu CEN/TR 18047:2024.
This Technical standard information includes the English version of CEN/TR 18047:2024.

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TECHNICAL REPORT

CEN/TR 18047

RAPPORT TECHNIQUE

TECHNISCHER REPORT

March 2024

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English Version

Mechanical products - Order of magnitude of key environmental data

Produits mécaniques - Ordre de grandeur de données
environnementales clés

Mechanische Produkte - Größenordnung der
wesentlichen Umweltdaten

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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CEN/TR 18047:2024 (E)

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European foreword

This document (CEN/TR 18047:2024) has been prepared by Technical Committee CEN/TC 406 “*Mechanical products - Ecodesign methodology*”, the secretariat of which is held by AFNOR.

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CEN/TR 18047:2024 (E)**Introduction**

As part of the initiatives to take the environmental aspects into account in product design and thus improve environmental performance, manufacturers need environmental data to guide their choices (e.g.: choice for a material, a process or an energy used).

Environmental data contained in this document are based on the feedback obtained from CETIM's (French Technical Centre for Mechanical Industry) research, and development actions and its involvement in several industrial projects ^[8].

These data are based on calculations and experimentations made on cases in the mechanical industry, and calculated from general data available on the market. References used are the most common and understandable terms and might not be in accordance with standardised designations.

The proposed data can be updated given the state of knowledge acquired on this topic.

1 Scope

This document provides general environmental data relevant to mechanical products. It can be applied to a mechanical product as well as to parts of a mechanical product.

The aim is to provide guidance values to entities, e.g. manufacturers, supporting

- design or re-design choices for products (e.g.: to compare technical solutions) by providing a complementary environmental criterion in a multicriteria approach;
- enhancement of knowledge on products from an environmental perspective (simplified environmental performance assessment).

These data cover the most relevant aspects for the mechanical sector: material, processes, energy, transportation and end of life of products. They provide an order of magnitude of impacts and cannot be considered as absolute values because many parameters can influence the obtained results (geographical and technical perimeters, use scenarios, hypothesis and method of calculation, etc.).

They are not intended to replace specific data obtained or used by entities as part of individual projects.

They are not intended to be used as such for:

- quantification of environmental impacts within a life cycle analysis (LCA) according to EN ISO 14040/EN ISO 14044,
- environmental communication as defined in EN ISO 14025 (Type III environmental declaration),
- evidence of regulatory compliance.

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 15804:2012+A2:2019,¹ *Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹ Impacted by EN 15804:2012+A2:2019/AC:2021.