

SLOVENSKI STANDARD SIST EN ISO 80000-12:2019

01-december-2019

Nadomešča: SIST EN ISO 80000-12:2013 SIST ISO 80000-12:2013

Veličine in enote - 12. del: Fizika kondenzirane snovi (ISO 80000-12:2019, popravljena verzija 2021-11)

Quantities and units - Part 12: Condensed matter physics (ISO 80000-12:2019, Corrected version 2021-11)

Größen und Einheiten - Teil 12: Physik der kondensierten Materie (ISO 80000-12:2019)

Grandeurs et unités - Partie 12: Physique de la matière condensée (ISO 80000-12:2019)

Ta slovenski standard je istoveten z: EN ISO 80000-12:2019

ICS:

01.060 Veličine in enote Quantities and units 07.030 Fizika. Kemija Physics. Chemistry

SIST EN ISO 80000-12:2019 en,fr,de

SIST EN ISO 80000-12:2019

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 80000-12:2019
://standards.iteh.ai/catalog/standards/sist/1dea94b0-f053-4ce6-b79f

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 80000-12

October 2019

ICS 01.060

Supersedes EN ISO 80000-12:2013

English Version

Quantities and units - Part 12: Condensed matter physics (ISO 80000-12:2019, Corrected version 2021-11)

Grandeurs et unités - Partie 12: Physique de la matière condensée (ISO 80000-12:2019, Version corrigée 2021-11)

Größen und Einheiten - Teil 12: Physik der kondensierten Materie (ISO 80000-12:2019, korrigierte Fassung 2021-11)

This European Standard was approved by CEN on 5 May 2019.

This European Standard was corrected and reissued by the CEN-CENELEC Management Centre on 8 December 2021.

CEN 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 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 member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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

EN ISO 80000-12:2019 (E)

Contents	Page
European foreword	

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 80000-12:2019
https://standards.iteh.ai/catalog/standards/sist/1dea94b0-f053-4ce6-b79f
39baa9a909e2/sist-en-iso-80000-12-2019

European foreword

This document (EN ISO 80000-12:2019) has been prepared by Technical Committee ISO/TC 12 "Quantities and units" in collaboration with Technical Committee CEN/SS F02 "Units and symbols" the secretariat of which is held by CCMC.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.

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

This document supersedes EN ISO 80000-12:2013.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 80000-12:2019, Corrected version 2021-11 has been approved by CEN as EN ISO 80000-12:2019 without any modification.

https://standards.iteh.ai/catalog/standards/sist/1dea94b0-f053-4ce6-b79f-39baa9a909e2/sist-en-iso-80000-12-2019

SIST EN ISO 80000-12:2019

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 80000-12:2019
://standards.iteh.ai/catalog/standards/sist/1dea94b0-f053-4ce6-b79f

SIST EN ISO 80000-12:2019

INTERNATIONAL STANDARD

ISO 80000-12

Second edition 2019-08

Corrected version 2021-11

Quantities and units —

Part 12: **Condensed matter physics**

Grandeurs et unités — Partie 12: Physique de la matière condensée

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 80000-12:2019 https://standards.iteh.ai/catalog/standards/sist/1dea94b0-f053-4ce6-b79f



ISO 80000-12:2019(E)

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 80000-12:2019
https://standards.iteh.ai/catalog/standards/sist/1dea94b0-f053-4ce6-b79f-39baa9a909e2/sist-en-iso-80000-12-2019



COPYRIGHT PROTECTED DOCUMENT

© ISO 2019

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

ISO 80000-12:2019(E)

Co	ontents	Page
Fore	eword	iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
Ann	nex A (normative) Symbols for planes and directions in crystals	12
Bibl	liography	13
Inde	PA	14

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 80000-12:2019
https://standards.iteh.ai/catalog/standards/sist/1dea94b0-f053-4ce6-b79f-39haa9a909e2/sist-en-iso-80000-12-2019

ISO 80000-12:2019(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 12, *Quantities and units*, in collaboration with Technical Committee IEC/TC 25, *Quantities and units*.

This second edition cancels and replaces the first edition (ISO 80000-12:2009), which has been technically revised.

The main changes compared to the previous edition are as follows:

- the table giving the quantities and units has been simplified;
- some definitions and the remarks have been stated physically more precisely.

A list of all parts in the ISO 80000 and IEC 80000 series can be found on the ISO and IEC websites.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This corrected version of ISO 80000-12:2019 incorporates the following corrections:

— the formula in 12.26 has been corrected (minus sign inserted).

Quantities and units —

Part 12:

Condensed matter physics

1 Scope

This document gives names, symbols, definitions and units for quantities of condensed matter physics. Where appropriate, conversion factors are also given.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

Names, symbols, definitions and units for quantities used in condensed matter physics are given in Table 1.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

https://standards.iteh.ai/catalog/standards/sist/1dea94b0-f053-4ce6-b79f-39haa9a909e2/sist-en-iso-80000-12-2019