
Tehnologija jedrskih goriv - Smernice za merjenje specifične površine prahu uranovega oksida po metodi BET (ISO 12800:2017)

Nuclear fuel technology - Guidelines on the measurement of the specific surface area of uranium oxide powders by the BET method (ISO 12800:2017)

Kernbrennstofftechnologie - Leitlinien für die Messung des spezifischen Oberflächenbereiches von Uranoxid-Pulvern mittels der BET-Methode (ISO 12800:2017)

Technologie du combustible nucléaire - Lignes directrices pour le mesurage de l'aire massique (surface spécifique) des poudres d'oxyde d'uranium par la méthode BET (ISO 12800:2017)

<https://standards.iteh.ai/catalog/standards/sist/4a5e60b1-f2c7-4c39-9cef-285b264f05a9/sist-en-iso-12800-2019>

Ta slovenski standard je istoveten z: EN ISO 12800:2019

ICS:

27.120.30	Cepljivi materiali in jedrska gorivna tehnologija	Fissile materials and nuclear fuel technology
-----------	---	---

SIST EN ISO 12800:2019

en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 12800:2019

<https://standards.iteh.ai/catalog/standards/sist/4a5e60b1-f2c7-4c39-9cef-285b264f05a9/sist-en-iso-12800-2019>

EUROPEAN STANDARD

EN ISO 12800

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2019

ICS 27.120.30

English Version

Nuclear fuel technology - Guidelines on the measurement of the specific surface area of uranium oxide powders by the BET method (ISO 12800:2017)

Technologie du combustible nucléaire - Lignes directrices pour le mesurage de l'aire massique (surface spécifique) des poudres d'oxyde d'uranium par la méthode BET (ISO 12800:2017)

Kernbrennstofftechnologie - Leitlinien für die Messung des spezifischen Oberflächenbereiches von Uranoxid-Pulvern mittels der BET-Methode (ISO 12800:2017)

This European Standard was approved by CEN on 8 March 2019.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, 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

Contents	Page
European foreword.....	3

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 12800:2019
<https://standards.iteh.ai/catalog/standards/sist/4a5e60b1-f2c7-4c39-9cef-285b264f05a9/sist-en-iso-12800-2019>

European foreword

The text of ISO 12800:2017 has been prepared by Technical Committee ISO/TC 85 "Nuclear energy, nuclear technologies, and radiological protection" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 12800:2019 by Technical Committee CEN/TC 430 "Nuclear energy, nuclear technologies, and radiological protection" the secretariat of which is held by AFNOR.

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 December 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.

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.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

ITC STANDARD PREVIEW
(standards.iteh.ai)

Endorsement notice

The text of ISO 12800:2017 has been approved by CEN as EN ISO 12800:2019 without any modification.

SIST EN ISO 12800:2019
<https://standards.iteh.ai/catalog/standards/sist/4a5e60b1-f2c7-4c39-9cef-285b264f05a9/sist-en-iso-12800-2019>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 12800:2019

<https://standards.iteh.ai/catalog/standards/sist/4a5e60b1-f2c7-4c39-9cef-285b264f05a9/sist-en-iso-12800-2019>

INTERNATIONAL
STANDARD

ISO
12800

Second edition
2017-06

**Nuclear fuel technology — Guidelines
on the measurement of the specific
surface area of uranium oxide
powders by the BET method**

*Technologie du combustible nucléaire — Lignes directrices pour le
mesurage de l'aire massique (surface spécifique) des poudres d'oxyde
d'uranium par la méthode BET*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 12800:2019](https://standards.iteh.ai/catalog/standards/sist/4a5e60b1-f2c7-4c39-9cef-285b264f05a9/sist-en-iso-12800-2019)

<https://standards.iteh.ai/catalog/standards/sist/4a5e60b1-f2c7-4c39-9cef-285b264f05a9/sist-en-iso-12800-2019>



Reference number
ISO 12800:2017(E)

© ISO 2017

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 12800:2019

<https://standards.iteh.ai/catalog/standards/sist/4a5e60b1-f2c7-4c39-9cef-285b264f05a9/sist-en-iso-12800-2019>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, 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
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
4.1 Summary of the BET method.....	1
4.2 Isothermal adsorption curves.....	1
4.3 Conditions and assumptions.....	2
5 Procedure	3
5.1 Sample preparation.....	3
5.2 Volumetric measurement.....	3
5.3 Gravimetric measurement.....	3
5.4 Original and single-point methods.....	3
5.5 Dynamic method (carrier gas method).....	4
5.6 Alternative methods.....	4
6 Expression of results	4
6.1 Methods of calculation.....	4
6.1.1 Multipoint determination.....	4
6.1.2 Single-point determination.....	7
6.2 Precision and accuracy.....	7
7 Test report	7
Bibliography	8

SIST EN ISO 12800:2019

<https://standards.iteh.ai/catalog/standards/sist/4a5e60b1-f2c7-4c39-9cef-285b264f05a9/sist-en-iso-12800-2019>