



International
Standard

ISO 23499

Coal — Determination of bulk density of coal as it is handled in industrial practices

Charbon — Détermination de la masse volumique en vrac du charbon tel qu'il est traité dans les pratiques industrielles

iTeh Standards
[**\(https://standards.iteh.ai\)**](https://standards.iteh.ai)
Document Preview

[ISO 23499:2026](#)

<https://standards.iteh.ai/catalog/standards/iso/1b5c2ee2-44d7-46f4-a40e-9ea06e62dc22/iso-23499-2026>

iTeh Standards

(<https://standards.iteh.ai>)

Document Preview

[ISO 23499:2026](#)

<https://standards.iteh.ai/catalog/standards/iso/1b5c2ee2-44d7-46f4-a40e-9ea06e62dc22/iso-23499-2026>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2026

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

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Method 1	1
4.1 Principle	1
4.2 Apparatus	2
4.2.1 Measuring boxes	2
4.2.2 Cones and tripod frame	2
4.3 Sampling and preparation	3
4.3.1 Sampling for bulk density of coal up to a 45 mm nominal top size	3
4.3.2 Preparation of sample	3
4.4 Procedure for bulk density of coal up to a 45 mm nominal top size	3
5 Method 2	5
5.1 Principle	5
5.2 Sampling and preparation	6
5.3 Apparatus	6
5.4 Procedure	8
6 Expression of results	9
6.1 Method 1	9
6.2 Method 2	9
7 Reporting of results	10
7.1 Precision	10
7.2 Repeatability for Method 1 and Method 2	10
7.3 Reproducibility	10
8 Test report	10
Bibliography	12

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 document 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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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 27, *Coal and Coke*, Subcommittee SC 1, *Coal preparation: Terminology and performance*.

This third edition cancels and replaces the second edition (ISO 23499:2013), which has been technically revised.

The main changes are as follows:

[ISO 23499:2026](http://www.iso.org/iso/23499:2026)

- addition of an alternate method using a smaller sized box of 0,028 37 m³ for bulk density of coal up to 45 mm nominal top size;
- addition of method for determining bulk density of a dry coal powder at minus 63 micrometres nominal top size.

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.