



**International
Standard**

ISO 11465

**Sludge and solid environmental
matrices — Determination of
dry residue or water content
and calculation of the dry matter
fraction on a mass basis**

*Boues et matrices environnementales solides — Détermination de
la teneur en résidu sec ou en eau et calcul de la fraction massique
de matière sèche*

**Second edition
2025-08**

ISO 11465:2025

<https://standards.iteh.ai/catalog/standards/iso/61842cfb-45cc-4e21-828f-fb6523b8fbeb/iso-11465-2025>

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 11465:2025

<https://standards.iteh.ai/catalog/standards/iso/61842cfb-45cc-4e21-828f-fb6523b8fbeb/iso-11465-2025>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2025

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 Principle	2
4.1 General	2
4.2 Principle of method A — Drying at 105 °C (dry residue)	2
4.3 Principle of method B — Direct Karl Fischer titration (water content)	2
5 Sample preparation	2
6 Method A — Drying at 105 °C	2
6.1 General	2
6.2 Interferences	2
6.3 Hazards	2
6.4 Apparatus	3
6.5 Procedure	3
7 Method A — Expression of results	4
7.1 Calculation of dry residue	4
7.2 Calculation of water content	4
7.2.1 General	4
7.2.2 Calculation of water content on a field moist basis	4
7.2.3 Calculation of water content on a dry residue basis	5
8 Method B — Direct Karl Fischer titration (volumetric/coulometric detection)	5
8.1 Interferences	5
8.2 Reagents	5
8.3 Apparatus	5
8.4 Procedure	6
8.4.1 Determination of the equivalence factor	6
8.4.2 Analysis of liquid samples	6
8.4.3 Expression of results	6
8.4.4 Analysis of solid samples	6
8.4.5 Expression of results	7
8.4.6 Calculation of dry matter fraction	7
9 Precision	7
10 Test report	7
Annex A (informative) Repeatability and reproducibility	8
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 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).

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 190, *Soil quality*, Subcommittee SC 3, *Chemical and physical characterization*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 444, *Environmental characterization of solid matrices*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 11465:1993), which has been technically revised. It also incorporates the Technical Corrigendum ISO 11465:1993/Cor 1:1994.

<https://standards.iteh.ai/catalog/standards/iso/61842cfb-45cc-4e21-828f-fb6523b8fbeb/iso-11465-2025>
The main changes are as follows:

- content was merged with the content of EN 12880 where appropriate;
- content was merged with the content of EN 15934 where appropriate.

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.