BS ISO 18390:2025

BSI Standards Publication

# Cereals, pulses and cereal products — Sampling — Simplified routine method

Documents
Document Sharing Hub

Full document details: BS ISO 18390:2025

# National foreword

This British Standard is the UK implementation of ISO 18390:2025.

The UK participation in its preparation was entrusted to Technical Committee AW/4, Cereals and pulses.

A list of organizations represented on this committee can be obtained on request to its committee manager.

**Contractual and legal considerations**

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2025
Published by BSI Standards Limited 2025

ISBN 978 0 539 27333 5

ICS 67.060

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 May 2025.

**Amendments/corrigenda issued since publication**

| Date | Text affected |
|---|---|

Documents
Document Sharing Hub

Full document details: BS ISO 18390:2025

International Standard

# ISO 18390

# Cereals, pulses and cereal products — Sampling — Simplified routine method

*Céréales, légumineuses et produits céréaliers — Échantillonnage — Méthode de routine simplifiée*

First edition
2025-05

Reference number
ISO 18390:2025(en)

© ISO 2025

Documents
Document Sharing Hub

Full document details: BS ISO 18390:2025

**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



Documents
Document Sharing Hub
Full document details: BS ISO 18390:2025

# Contents

Page

**Foreword** ... **iv**
**Introduction** ... **v**
**1 Scope** ... **1**
**2 Normative references** ... **1**
**3 Terms and definitions** ... **1**
**4 General requirements** ... **2**
**5 Sampling equipment and devices** ... **3**
**6 Sampling** ... **3**
6.1 General ... 3
6.2 Sampling of bulk products ... 3
6.2.1 General ... 3
6.2.2 Sampling of flowing bulk products ... 4
6.2.3 Sampling of static bulk products ... 4
6.2.4 Number and mass of grain samples ... 4
6.2.5 Number and mass of samples of milled products and other cereal products ... 6
6.3 Sampling of milled products and other cereal products in pre-packaged units ... 7
6.3.1 Crates and boxes or sacks and bags for sampling ... 7
6.3.2 Incremental samples or pre-packaged units ... 7
6.3.3 Number and mass of samples ... 8
**7 Laboratory sample** ... **10**
7.1 Reduction of heterogeneity ... 10
7.2 Division of the aggregate sample ... 10
7.2.1 General ... 10
7.2.2 Sample dividers ... 10
7.2.3 Cone and quarter method ... 11
**8 Packaging and labelling of samples** ... **12**
8.1 General ... 12
8.2 Labels for samples ... 12
8.3 Information ... 12
**9 Shipment of samples** ... **12**
**10 Sampling report** ... **12**
**11 Health and safety** ... **13**
**Bibliography** ... **14**

© ISO 2025 – All rights reserved


Documents
Document Sharing Hub
Full document details: BS ISO 18390:2025

# 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 34, *Food products,* Subcommittee SC 4, *Cereals and pulses.*

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.

© ISO 2025 – All rights reserved


Documents
Document Sharing Hub
Full document details: BS ISO 18390:2025

# Introduction

Sampling is a procedure that requires both a method and equipment that are suitable for the task. Any analysis of the characteristics of a lot and any interpretation of the results would prove futile if the sample were not representative of the lot from which it was taken.

Sampling is a delicate procedure that requires a great deal of care. It is strongly recommended that the task is entrusted to personnel who have been previously trained to use the appropriate equipment.

As these procedures are complex for first elevators, the simplified routine method given in this document has been developed in order to allow an easier daily application in the grain sector.

The representativity of the samples taken according to the method described in this document was experimentally compared to that of those taken using the reference method given in ISO 24333 and European regulation N° 401/2006[7].

For the results of these studies, see ISO/TR 29263:2021, Clause 6, in which the method of this document is called “routine” and the protocol of the reference method is called “normative”.

ISO/TR 29263[3] shows that, in some cases, the sampling error can be greater when using the method described in this document compared with the reference method. It is the responsibility of the operator to decide whether the greater sampling error from using this document is acceptable or not.

© ISO 2025 – All rights reserved



Documents
Document Sharing Hub
Full document details: BS ISO 18390:2025

Documents
Document Sharing Hub