

STN	Obaly Skúška pádom Časť 1: Papierové vrecia (ISO 7965-1: 2024)	STN EN ISO 7965-1 77 0615
------------	---	---

Packaging - Drop test - Part 1: Paper sacks (ISO 7965-1:2024)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/24

Obsahuje: EN ISO 7965-1:2024, ISO 7965-1:2024

Oznámením tejto normy sa ruší
STN EN 27965-1 (77 0615) z júna 1999

138712

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2024
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD

EN ISO 7965-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2024

ICS 55.080

Supersedes EN 27965-1:1992

English Version

Packaging - Drop test - Part 1: Paper sacks (ISO 7965-1:2024)

Emballages - Essai de chute - Partie 1: Sacs en papier
(ISO 7965-1:2024)

Packmittel - Stoßprüfung im freien Fall für Säcke - Teil
1: Papiersäcke (ISO 7965-1:2024)

This European Standard was approved by CEN on 29 March 2024.

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, Türkiye 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 7965-1:2024 (E)

Contents	Page
European foreword.....	3

European foreword

This document (EN ISO 7965-1:2024) has been prepared by Technical Committee ISO/TC 122 "Packaging" in collaboration with Technical Committee CEN/TC 261 "Packaging" 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 October 2024, and conflicting national standards shall be withdrawn at the latest by October 2024.

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 27965-1:1992.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 7965-1:2024 has been approved by CEN as EN ISO 7965-1:2024 without any modification.



International Standard

ISO 7965-1

Packaging — Drop test —

Part 1: Paper sacks

*Emballages — Essai de chute —
Partie 1: Sacs en papier*

**Second edition
2024-04**

ISO 7965-1:2024(en)**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2024

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 2024 – All rights reserved

ISO 7965-1:2024(en)**Contents**

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Apparatus	1
6 Sampling	2
7 Test conditions	2
7.1 General.....	2
7.2 Conditioning for testing of paper sacks.....	2
7.3 Testing in non-laboratory situations.....	2
7.4 Surface conditions.....	2
8 Procedure	3
8.1 General.....	3
8.2 Filling.....	3
8.3 Dropping.....	3
8.3.1 General.....	3
8.3.2 Dropping procedure.....	3
8.4 Sack breakage.....	4
9 Test methods	4
9.1 General.....	4
9.2 Progressive drop height method.....	4
9.2.1 General.....	4
9.2.2 Flat progressive height drop test.....	4
9.2.3 Butt progressive height drop test.....	5
9.3 Constant drop height method.....	5
9.3.1 General.....	5
9.3.2 Flat constant height drop test.....	5
9.3.3 Butt constant height drop test.....	5
10 Test report	6
Annex A (informative) Example of apparatus for drop testing	7
Annex B (informative) Identification of surfaces of filled sacks for testing	8
Bibliography	9

ISO 7965-1:2024(en)

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 122, *Packaging*, Subcommittee SC 3, *Performance requirements and tests for means of packaging, packages and unit loads (as required by ISO/TC 122)*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 261, *Packaging*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 7965-1:1984), which has been technically revised.

The main changes are as follows:

- ISO 6599-1 has been added to [Clause 2](#), replacing ISO 2233;
- two additional subclauses have been added to [Clause 5](#) to include information on ensuring correct drop height and placement of the sack, respectively;
- a new subclause has been added to [Clause 7](#) for information on testing in non-laboratory situations;
- the limit height method has been deleted from [Clause 9](#), keeping only the progressive- and constant drop height methods, respectively;
- the principle of testing for the constant drop method in [9.3](#) has been changed to exclude the side constant height drop test;
- Annex C has been deleted and [Clause 10](#) has been added to outline the information that the test report shall include;
- some editorial changes have been made to the document in line with ISO/IEC Directives, Part 2.

A list of all parts in the ISO 7965 series can be found on the ISO website.

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.

Packaging — Drop test —

Part 1: Paper sacks

1 Scope

This document specifies a method of vertical impact testing on a filled paper sack by dropping. It is performed either as a single test to investigate the effects of vertical impact or as part of a sequence of tests designed to measure the ability of a sack to withstand a distribution system that includes a vertical impact hazard.

This document specifies the testing procedure and how the results of tests are presented. It is based on ISO 2248 but is specifically related to paper sacks.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6590-1, *Packaging — Sacks — Vocabulary and types — Part 1: Paper sacks*

ISO 6599-1, *Packaging — Sacks — Conditioning for testing — Part 1: Paper sacks*

ISO 7023, *Packaging — Sacks — Method of sampling empty sacks for testing*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN