

SLOVENSKI STANDARD SIST EN 22248:1996

01-avgust-1996

Nadomešča: SIST ISO 2248:1996

Embalaža - Celovita, napolnjena transportna embalaža - Preskus s prostim padom (ISO 2248:1985)

Packaging - Complete, filled transport packages - Vertical impact test by dropping (ISO 2248:1985)

Verpackung - Versandfertige Packstücke Vertikale Stoßprüfung (freier Fall) (ISO 2248:1985) (standards.iteh.ai)

Emballages - Emballages d'expédition<u>complets</u> et pleins - Essai de choc vertical par chute libre (ISO 2248:1985)ards.iteh.ai/catalog/standards/sist/3b174b3d-66f6-4a02-839d-46ee96f8c3c2/sist-en-22248-1996

Ta slovenski standard je istoveten z: EN 22248:1992

ICS:

55.180.40 Celovita, napolnjena transportna embalaža

Complete, filled transport packages

SIST EN 22248:1996

en



iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 22248:1996</u> https://standards.iteh.ai/catalog/standards/sist/3b174b3d-66f6-4a02-839d-46ee96f8c3c2/sist-en-22248-1996

SIST EN 22248:1996

EUROPEAN STANDARD

EN 22248:1992

November 1992

NORME EUROPÉENNE

EUROPÄISCHE NORM

UDC 621.798.1:620.165.78

Descriptors:

Packing, transport packing, complete- and filled packages, impact tests, drop tests

English version

Packaging - Complete, filled transport packages -Vertical impact test by dropping (ISO 2248:1985)

Emballages - Emballages d'expédition complets DARD PREverpackung - Versandfertige Packstücke et pleins - Essai de choc vertical par chute Vertikale Stoßprüfung (freier Fall) libre (ISO 2248:1985) (standards.iteh.a(ISO 2248:1985)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

In 1991, ISO 2248:1985 "Packaging - Complete, filled transport packages - Vertical impact test by dropping" was submitted to the CEN Primary Questionnaire procedure.

Following the positive result of the CEN/CS Proposal ISO 2248:1985 was submitted to the Formal Vote.

The result of the Formal Vote was positive.

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 May 1993, and conflicting national standards shall be withdrawn at the latest by May 1993.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

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The text of the International Standard ISO 2248:1985 was approved by CEN as a European Standard without any modification.





INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEX AND A POLAN OPPAHUSALUN TO CTAH APTUSALUNO ORGANISATION INTERNATIONALE DE NORMALISATION

Packaging — Complete, filled transport packages — Vertical impact test by dropping

Emballages – Emballages d'expédition complets et pleins – Essai de choc vertical par chute libre

Second edition – 1985 12-25 STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 22248:1996</u> https://standards.iteh.ai/catalog/standards/sist/3b174b3d-66f6-4a02-839d-46ee96f8c3c2/sist-en-22248-1996

UDC 621.798.1:620.178.153

Ref. No. ISO 2248-1985 (E)

Descriptors : packing, transport packing, complete-and filled packages, tests, impact tests, drop tests.

SIST EN 22248:1996

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting TANDARD PREVIEW

International Standard ISO 2248 was prepared by Technical Committee ISO/TC 122, Packaging.

This second edition cancels and replaces the first edition (ISO 2248-1972), which has been technically revised as follows.https://standards.iteh.a/catalog/standards/sist/3b174b3d-66f6-4a02-839d-

46ee96f8c3c2/sist-en-22248-1996

a new clause on "Package preparation" has been added.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Packaging — Complete, filled transport packages — Vertical impact test by dropping

1 Scope and field of application

This International Standard specifies a method for carrying out a vertical impact test on a complete, filled transport package by dropping. It may be 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 package to withstand a distribution system that includes a vertical impact hazard.

2 References

ISO 2206, Packaging – Complete, filled transport packages Identification of parts when testing.

4.4 Impact surface, horizontal and flat, massive enough to be immovable and rigid enough to be non-deformable under test conditions.

 $\ensuremath{\mathsf{NOTE}}$ — In normal circumstances, the impact surface provided shall be

 $-\,$ integral with a mass at least 50 times that of the heaviest package to be tested;

 $-\,$ flat, such that no two points on its surface differ in level by more than 2 mm;

rigid, such that it will not be deformed by more than 0,1 mm when an area of 100 mm² is loaded statically with 10 kg anywhere on the surface;

 sufficiently large to ensure that the test package falls entirely inclusion the surface.

ISO 2233, Packaging — Complete, filled transport packages — Conditioning for testing.

SIST EN 22248:19/0 addition, the apparatus shall meet the requirements and tolerances of clause 7 https://standards.iteh.ai/catalog/standards/sist/301/403d-6016-4a02-839d-

3 Principle

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standards

Raising of the test package above a rigid plane surface and releasing it to strike this surface (the "impact surface") after a free fall¹). The atmospheric conditions, the height of drop and the attitude of the package are predetermined.

4 Apparatus

4.1 Lifting arrangement, which will not damage the test package during either lifting or release.

4.2 Means of holding the test package prior to release in its predetermined attitude.²⁾

4.3 Release mechanism, to release the test package in such a way that its fall is not obstructed by any part of the apparatus before striking the impact surface (4.4).

5 Package preparation

The test package shall normally be filled with its intended contents. However, simulated or dummy contents may be used, on condition that the dimensions and physical properties of such contents shall be as close as possible to those of the intended contents.

Ensure that the test package is closed normally, as if ready for distribution. If simulated or dummy contents are used, ensure that the normal method of closure is still employed.

6 Conditioning

The package shall be conditioned in accordance with one of the conditions described in ISO 2233.

¹⁾ In some circumstances, a completely free fall may not be possible; in such circumstances, the impact velocity shall be within 1 % of that which is achieved by a free fall.

²⁾ The difference in behaviour of a sack, for example, suspended from the top or supported below in an end drop, could be significant. In such instances, the method of holding the package before dropping shall be described in the test report.

7 Procedure

Whenever possible the test shall be carried out in the same atmospheric conditions as used for conditioning, where this is critical to the materials or application of the package. In other circumstances, the test shall be carried out in atmospheric conditions which are as near as practicable to those used for conditioning.

7.1 Lift the test package and hold it in the predetermined attitude (see annex) at a height within ± 2 % of the predetermined drop height as defined by the distance between the lowest point on the package at the time of release and the nearest point on the impact surface (4.4).

7.2 Release the test package from its predetermined attitude within the following tolerances:

 for face or edge drops: 2º maximum angle between the impacting face, or edge, and the horizontal surface;

- for edge or corner drops: the angle between a prescribed surface of the package and the horizontal surface \pm 5° or \pm 10 % of the angle, which ever is the greater.

The velocity at impact shall be within ± 1 % of that which and s) idate of the test; would be achieved by a free fall. p) signature of tester.

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8 Test report

The test report shall include the following particulars:

a) reference to this International Standard;

b) number of replicate packages tested;

c) full description of the package, including dimensions, structural and material specifications of the package and its fittings, cushioning, blocking, closure or reinforcing arrangements;

d) description of contents — if simulated or dummy contents were used, full details shall be given;

e) gross mass of package and mass of contents, in kilograms;

f) relative humidity, temperature and time of conditioning, temperature and relative humidity of test area at time of test; whether these values comply with the requirements of ISO 2233;

g) the attitude in which the package was tested, stated in one of the ways given in the annex;

h) drop height, in millimetres;

may assist in correct interpretation;

j) type of apparatus;

 k) any deviations from the test method described in this International Standard;
m) a record of the result, with any observations which