



SLOVENSKI STANDARD
SIST EN ISO 6272:1997
01-december-1997

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Paints and varnishes - Falling-weight test (ISO 6272:1993)

Lacke und Anstrichstoffe - Prüfung durch fallendes Gewichtsstück (ISO 6272:1993)

Peintures et vernis - Essai de chute d'une masse (ISO 6272:1993)

Ta slovenski standard je istoveten z: EN ISO 6272:1994

[SIST EN ISO 6272:1997](https://standards.iteh.ai/catalog/standards/sist/1af1ede9-4c09-4f14-b8c4-19da03773852/sist-en-iso-6272-1997)

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ICS:

87.040

Barve in laki

Paints and varnishes

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en

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EUROPEAN STANDARD

EN ISO 6272

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1994

UDC 667.613:620.178.7

Descriptors: Paints, varnishes, tests, impact tests

English version

**Paints and varnishes - Falling-weight test
(ISO 6272:1993)**

Peintures et vernis - Essai de chute d'une
masse (ISO 6272:1993)

Lacke und Anstrichstoffe - Prüfung durch
fallendes Gewichtsstück (ISO 6272:1993)

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REPUBLIKA SLOVENIJA
INŠTITUT ZA STANDARDIZACIJO IN METROLOGIJO

LIUBLJANA

SIEN EN ISO 6272

PREVZET PO ILLUSTRACIJSKI

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This European Standard was approved by CEN on 1994-08-22. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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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EN ISO 6272:1994

Foreword

This European Standard has been taken over by the Technical Committee CEN/TC 139 "Paints and varnishes" from the work of ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO).

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 February 1995, and conflicting national standards shall be withdrawn at the latest by February 1995.

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.

Endorsement notice

The text of the International Standard ISO 6272:1993 was approved by CEN as a European Standard without any modification.

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NOTE: Normative references to international publications are listed in annex ZA (normative)

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Annex ZA (normative)**Normative references to international publications
with their relevant European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 1512	1991	Paints and varnishes - Sampling of products in liquid or paste form	EN 21512	1994
ISO 1513	1992	Paints and varnishes - Examination and preparation of samples for testing	EN ISO 1513	1994
ISO 3270	1984	Paints and varnishes and their raw Materials - Temperatures and humidities for conditioning and testing	EN 23270	1991

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INTERNATIONAL
STANDARD

ISO
6272

First edition
1993-04-01

Paints and varnishes — Falling-weight test

Peintures et vernis — Essai de chute d'une masse

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Reference number
ISO 6272:1993(E)

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 6272 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Sub-Committee SC 9, *General test methods for paints and varnishes*.

This first edition cancels and replaces ISO/TR 6272:1979, which has been technically revised.

Annex A forms an integral part of this International Standard.

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International Organization for Standardization
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Paints and varnishes — Falling-weight test

1 Scope

This International Standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products.

This International Standard specifies a test method for evaluating the resistance of a dry film of paint, varnish or related product to cracking or peeling from a substrate when it is subjected to a deformation caused by a falling weight, dropped under standard conditions.

NOTE 1 The term "impact test" has been omitted intentionally from the title of this International Standard as one important characteristic of the apparatus used is that it should produce rapid deformation rather than a true impact.

- The method described can be applied
- either as a pass/fail test, the test being carried out from one drop height and with a specified mass, so as to test compliance with a particular specification; or
 - as a classification test, to determine the minimum mass and/or drop height for which the coating cracks or peels from its substrate by gradually increasing the drop height and/or the mass.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1512:1991, *Paints and varnishes — Sampling of products in liquid or paste form.*

ISO 1513:1992, *Paints and varnishes — Examination and preparation of samples for testing.*

ISO 1514:—¹⁾, *Paints and varnishes — Standard panels for testing.*

ISO 2808:1991, *Paints and varnishes — Determination of film thickness.*

ISO 3270:1984, *Paints and varnishes and their raw materials — Temperatures and humidities for conditioning and testing.*

3 Required supplementary information

For any particular application, the test method specified in this International Standard needs to be completed by supplementary information. The items of supplementary information are given in annex A.

4 Apparatus

Ordinary laboratory apparatus and glassware, together with the following.

4.1 Falling-weight apparatus, comprising the elements described in 4.1.1 to 4.1.6.

4.1.1 Base stand, of sufficient mass to support the die (4.1.4).

4.1.2 Falling weight (see figure 1), the head having the shape of a spherical sector of diameter $(20 \pm 0,3)$ mm, and a total mass of $(1\ 000 \pm 1)$ g.

NOTE 2 An additional weight of mass $(1\ 000 \pm 1)$ g can be mounted on top.

1) To be published. (Revision of ISO 1514:1984)