



SLOVENSKI STANDARD SIST EN ISO 11402:2000

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Plastics - Condensation resins - Determination of free formaldehyde (ISO 11402:1993)

Kunststoffe - Kondensationsharze - Bestimmung des freien Formaldehyds (ISO 11402:1993)

Plastiques - Résines de condensation - Détermination du formaldéhyde libre (ISO 11402:1993)

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Ta slovenski standard je istoveten z: EN ISO 11402:1998

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Thermosetting materials

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 11402

August 1998

ICS 83.080.10

Descriptors: see ISO document

English version

Plastics - Condensation resins - Determination of free
formaldehyde (ISO 11402:1993)

Plastiques - Résines de condensation - Détermination du
formaldéhyde libre (ISO 11402:1993)

Kunststoffe - Kondensationsharze - Bestimmung des freien
Formaldehyds (ISO 11402:1993)

This European Standard was approved by CEN on 13 June 1998.

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.

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 Central Secretariat has the same status as the official versions.

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

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

Foreword

The text of the International Standard from Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

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 1999, and conflicting national standards shall be withdrawn at the latest by February 1999.

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

Endorsement notice

The text of the International Standard ISO 11402:1993 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 3696	1987	Water for analytical laboratory use - Specification and test methods	EN ISO 3696	1995
ISO 9020	1994	Binders for paints and varnishes - Determination of free-formaldehyde content of amino resins - Sodium sulfite titrimetric method	EN ISO 9020	1998
ISO 9397	1989	Plastics - Phenolic resins - Determination of free-formaldehyde content - Hydroxylamine hydrochloride method	EN ISO 9397	1997

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INTERNATIONAL STANDARD

ISO
11402

First edition
1993-11-15

Plastics — Condensation resins — Determination of free formaldehyde

iTeh STANDARD PREVIEW
*Plastiques — Résines de condensation — Détermination du
formaldéhyde libre*
(standards.iteh.ai)

SIST EN ISO 11402:2000

<https://standards.iteh.ai/catalog/standards/sist/c7177232-528b-411f-8972-cc9822a8adbe/sist-en-iso-11402-2000>



Reference number
ISO 11402:1993(E)

ISO 11402:1993(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 11402 was prepared by Technical Committee ISO/TC 61, *Plastics*, Sub-Committee SC 12, *Thermosetting materials*.

Annexes A and B of this International Standard are for information only.

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International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Plastics — Condensation resins — Determination of free formaldehyde

1 Scope

This International Standard specifies test methods for the determination of free formaldehyde in condensation resins, including urea resins, furan resins, melamine resins and phenolic resins, as well as combinations and modifications of these resins.

The purpose of this International Standard is to establish recognized and useful determination procedures (for instance in order to check whether official regulations on the handling of hazardous workplace materials are observed). As far as possible, all formaldehyde-containing resins are to be included in this connection. The free formaldehyde determined in formaldehyde condensation resins according to this International Standard establishes the actual condition at the time of the test. The value has no quantitative relationship to free formaldehyde that may arise during or after processing.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publi-

cation, 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 3696:1987, *Water for analytical laboratory use — Specification and test methods*.

ISO 9020:—¹⁾, *Binders for paints and varnishes — Determination of free-formaldehyde content of amino resins — Sodium sulfite titrimetric method*.

ISO 9397:1989, *Plastics — Phenolic resins — Determination of free formaldehyde content*.

3 Definition

For the purposes of this International Standard, the following definition applies.

3.1 free formaldehyde: Formaldehyde that is present in unbound form as formaldehyde, formaldehyde dihydrate (dihydroxymethylene) or polyoxymethylene in a condensation resin.

1) To be published.