



SLOVENSKI STANDARD
SIST EN ISO 7142:2004

01-julij-2004

Binders for paints and varnishes - Epoxy resins - General methods of test (ISO 7142:1984)

Binders for paints and varnishes - Epoxy resins - General methods of test (ISO 7142:1984)

Bindemittel für Beschichtungsstoffe - Epoxidharze - Allgemeine Prüfverfahren (ISO 7142:1984)

iTeh STANDARD PREVIEW
(standards.itih.ai)

Liants pour peintures et vernis - Résines époxydiques - Méthodes générales d'essai (ISO 7142:1984)

[SIST EN ISO 7142:2004](https://standards.itih.ai/catalog/standards/sist/318fe8a5-0cea-4e41-8235-cae04fd601dc/sist-en-iso-7142-2004)

[https://standards.itih.ai/catalog/standards/sist/318fe8a5-0cea-4e41-8235-](https://standards.itih.ai/catalog/standards/sist/318fe8a5-0cea-4e41-8235-cae04fd601dc/sist-en-iso-7142-2004)

[cae04fd601dc/sist-en-iso-7142-2004](https://standards.itih.ai/catalog/standards/sist/318fe8a5-0cea-4e41-8235-cae04fd601dc/sist-en-iso-7142-2004)

Ta slovenski standard je istoveten z: EN ISO 7142:2004

ICS:

87.060.20 Veziva Binders

SIST EN ISO 7142:2004 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 7142:2004

<https://standards.iteh.ai/catalog/standards/sist/318fe8a5-0cea-4e41-8235-cae04fd601dc/sist-en-iso-7142-2004>

ICS 87.060.20

English version

Binders for paints and varnishes - Epoxy resins - General
methods of test (ISO 7142:1984)

Liants pour peintures et vernis - Résines époxydiques -
Méthodes générales d'essai (ISO 7142:1984)

Bindemittel für Beschichtungsstoffe - Epoxidharze -
Allgemeine Prüfverfahren (ISO 7142:1984)

This European Standard was approved by CEN on 8 April 2004.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

[SIST EN ISO 7142:2004](https://standards.iteh.ai/catalog/standards/sist/318fe8a5-0cea-4e41-8235-cae04fd601dc/sist-en-iso-7142-2004)

<https://standards.iteh.ai/catalog/standards/sist/318fe8a5-0cea-4e41-8235-cae04fd601dc/sist-en-iso-7142-2004>



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of ISO 7142:1984 has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 7142:2004 by Technical Committee CEN/TC 139 "Paints and varnishes", the secretariat of which is held by DIN.

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 November 2004, and conflicting national standards shall be withdrawn at the latest by November 2004.

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

Endorsement notice

The text of ISO 7142:1984 has been approved by CEN as EN ISO 7142:2004 without any modifications.

NOTE Normative references to International Standards are listed in Annex ZA (normative).

<https://standards.iteh.ai/catalog/standards/sist/318fe8a5-0cea-4e41-8235-cae04fd601dc/sist-en-iso-7142-2004>

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).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN</u> | <u>Year</u> |
|--------------------|-------------|--|-------------|-------------|
| ISO 1523 | 2002 | Determination of flash point - Closed cup equilibrium method | EN ISO 1523 | 2002 |
| ISO 2431 | 1993 | Paints and varnishes - Determination of flow time by use of flow cups | EN ISO 2431 | 1996 |
| ISO 3001 | 1999 | Plastics - Epoxy compounds - Determination of epoxy equivalent | EN ISO 3001 | 1999 |
| ISO 3219 | 1993 | Plastics - Polymers/resins in the liquid state or as emulsions or dispersions - Determination of viscosity using a rotational viscometer with defined shear rate | EN ISO 3219 | 1994 |
| ISO 4583 | 1998 | Plastics - Epoxy resins and related materials - Determination of easily saponifiable chlorine | EN ISO 4583 | 1998 |
| ISO 4615 | 1979 | Plastics - Unsaturated polyesters and epoxide resins - Determination of total chlorine content | EN ISO 4615 | 1999 |

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 7142:2004

<https://standards.iteh.ai/catalog/standards/sist/318fe8a5-0cea-4e41-8235-cae04fd601dc/sist-en-iso-7142-2004>

International Standard 7142

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Binders for paints and varnishes — Epoxy resins — General methods of test

Liants pour peintures et vernis — Résines époxydiques — Méthodes générales d'essai

First edition — 1984-12-15

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 7142:2004](#)

<https://standards.iteh.ai/catalog/standards/sist/318fe8a5-0cea-4e41-8235-cae04fd601dc/sist-en-iso-7142-2004>

UDC 667.621.63 : 543

Ref. No. ISO 7142-1984 (E)

Descriptors : paints, varnishes, binders (materials), epoxy resins, tests.

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.

International Standard ISO 7142 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*.

PDF STANDARD PREVIEW
(standards.iteh.ai)
SIST EN ISO 7142:2004
<https://standards.iteh.ai/catalog/standards/sist/318fe8a5-0cea-4e41-8235-cae04fd601dc/sist-en-iso-7142-2004>

Binders for paints and varnishes — Epoxy resins — General methods of test

1 Scope and field of application

This International Standard specifies general methods of test for epoxy resins for use in paints, varnishes and similar products. It is also applicable to those solutions made from epoxy resins that are intended for use as binders for paints and varnishes.

The test methods to be applied to an individual epoxy resin shall be the subject of agreement between the interested parties.

The test methods described in this International Standard are not intended for epoxy esters (see note to clause 3).

2 References

ISO 385/1, *Laboratory glassware — Burettes — Part 1: General requirements.*

ISO 648, *Laboratory glassware — One-mark pipettes.*

ISO 842, *Raw materials for paints and varnishes — Sampling.*

ISO 1218, *Plastics — Polyamides — Determination of "melting point".*

ISO 1523, *Paints and varnishes, petroleum and related products — Determination of flashpoint — Closed cup equilibrium method.*

ISO 2431, *Paints and varnishes — Determination of flow time by use of flow cups.*

ISO 3001, *Plastics — Epoxide compounds — Determination of epoxide equivalent.*

ISO 3219, *Plastics — Polymers in the liquid, emulsified or dispersed state — Determination of viscosity with a rotational viscometer, working at defined shear rate.*

ISO 3251, *Paint media — Determination of volatile and non-volatile matter.*

ISO 3679, *Paints and varnishes, petroleum and related products — Determination of flashpoint — Rapid equilibrium method.*

ISO 4583, *Plastics — Epoxide resins and related materials — Determination of easily saponifiable chlorine.*

ISO 4615, *Plastics — Unsaturated polyesters and epoxide resins — Determination of total chlorine content.*

ISO 4625, *Binders for paints and varnishes — Determination of softening point — Ring and ball method.*

ISO 4630, *Binders for paints and varnishes — Estimation of colour of clear liquids by the Gardner colour scale.*

ISO 6271, *Clear liquids — Estimation of colour by the platinum-cobalt scale.*

3 Definition

epoxy resin: Synthetic resin containing epoxy groups.

NOTE — Epoxy esters obtained by reacting materials containing epoxy groups with fatty acids or oils which dry by oxidation are not covered by this International Standard.

4 Sampling

Take a representative sample of the product to be tested as described in ISO 842.