



SLOVENSKI STANDARD
SIST EN ISO 4583:2000
01-maj-2000

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Plastics - Epoxy resins and related materials - Determination of easily saponifiable chlorine (ISO 4583:1998)

Kunststoffe - Epoxidharze und verwandte Stoffe - Bestimmung des leicht verseifbaren Chlors (ISO 4583:1998)

ITeh STANDARD PREVIEW
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Plastiques - Résines époxydes et matières apparentées - Dosage du chlore facilement saponifiable (ISO 4583:1998)

<https://standards.iteh.ai/catalog/standards/sist/c90df31-9617-4d50-811b-e74eb789ba8f/sist-en-iso-4583-2000>

Ta slovenski standard je istoveten z: EN ISO 4583:1998

ICS:

83.080.10 Duromeri Thermosetting materials

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 4583

April 1998

ICS 83.080.10

Descriptors: see ISO document

English version

Plastics - Epoxy resins and related materials - Determination of easily saponifiable chlorine (ISO 4583:1998)

Plastiques - Résines époxydes et matières apparentées - Dosage du chlore facilement saponifiable (ISO 4583:1998)

Kunststoffe - Epoxidharze und verwandte Stoffe - Bestimmung des leicht verseifbaren Chlors (ISO 4583:1998)

This European Standard was approved by CEN on 5 March 1998.

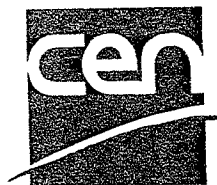
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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same 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

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EN ISO 4583:1998

Foreword

The text of the International Standard ISO 4583:1998 has been prepared by Technical Committee ISO/TC 61 "Plastics" in collaboration with 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 October 1998, and conflicting national standards shall be withdrawn at the latest by October 1998.

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 4583:1998 was 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 – Specifications and test methods	EN ISO 3696	1995

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INTERNATIONAL
STANDARD

ISO
4583

Second edition
1998-04-01

**Plastics — Epoxy resins and related
materials — Determination of easily
saponifiable chlorine**

*Plastiques — Résines époxydes et matières apparentées — Dosage
du chlore facilement saponifiable*

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Reference number
ISO 4583:1998(E)

ISO 4583:1998(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 4583 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 12, *Thermosetting materials*.

This second edition cancels and replaces the first edition (ISO 4583:1978), which has been technically revised.

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Plastics — Epoxy resins and related materials — Determination of easily saponifiable chlorine

1 Scope

This International Standard specifies a method for the determination of easily saponifiable chlorine in epoxy resins (see 7.1) and glycidyl esters (see 7.2).

The values obtained are indicative of the concentration of easily saponifiable chlorine of chlorohydrin groups in the compounds.

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

ISO 11376:1997, *Plastics — Epoxy resins and glycidyl esters — Determination of inorganic chlorine*.

3 Definition

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

easily saponifiable chlorine: The amount of chlorine saponifiable by this test method. It consists mainly of chlorine which is present as 1,2-chlorohydrin as the result of incomplete dehydrohalogenation.

The easily saponifiable chlorine content is the quantity of easily saponifiable chlorine in a given quantity of epoxy resin and/or glycidyl ester.

4 Principle

A test portion is reacted with sodium hydroxide solution for 2 h:

at room temperature in 2-butoxyethanol for epoxy resins;

at 50 °C in methanol for glycidyl esters.