

SLOVENSKI STANDARD SIST EN ISO 4597-1:2000

01-maj-2000

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Plastics - Hardeners and accelerators for epoxide resins - Part 1: Designation (ISO 4597-1:1983)

Kunststoffe - Härter und Beschleuniger für Epoxidharze - Teil 1: Kennzeichnung (ISO 4597-1:1983) **Teh STANDARD PREVIEW**

Plastiques - Durcisseurs et accélérateurs pour résines époxydes - Partie 1: Désignation (ISO 4597-1:1983) <u>SIST EN ISO 4597-1:2000</u>

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Ta slovenski standard je istoveten z: EN ISO 4597-1-2000

ICS:

83.080.10 Duromeri

Thermosetting materials

SIST EN ISO 4597-1:2000

en

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EUROPEAN STANDARD

EN ISO 4597-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1997

ICS 83.080.10

Descriptors: see ISO document

English version

Plastics - Hardeners and accelerators for epoxide resins - Part 1: Designation (ISO 4597-1:1983)

Plastiques - Durcisseurs et accélérateurs pour résines époxydes - Partie 1: Désignation (ISO 4597-1:1983)

Kunststoffe - Härter und Beschleuniger für Epoxidharze -Teil 1: Kennzeichnung (ISO 4597-1:1983)

This European Standard was approved by CEN on 16 October 1997.

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

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Ref. No. EN ISO 4597-1:1997 E

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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 May 1998, and conflicting national standards shall be withdrawn at the latest by May 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.

iTeh STEndorsement-notice EVIEW

The text of the International Standard ISO 4597-1:1983 has been approved by CEN as a European Standard without any modification.

SIST EN ISO 4597-1:2000

NOTE: Normative references to International Standards are listed in annex ZA (normative). 7b14d9cfcfc3/sist-en-iso-4597-1-2000

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.

Publication Year Title

EN Year

ISO 3219

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

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ISO

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEX DYHAPODHAR OP CHUSALUR TO CTAHDAPT USALUMOORGANISATION INTERNATIONALE DE NORMALISATION

Plastics — Hardeners and accelerators for epoxide resins — Part 1 : Designation

Plastiques – Durcisseurs et accélérateurs pour résines époxydes – Partie 1 : Désignation First edition – 1983-05-01 (standards.iteh.ai)

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ISO 4597/1-1983 (E)

UDC 678.686 : 678.044

Ref. No. ISO 4597/1-1983 (E)

Descriptors : plastics, epoxy resins, hardeners for resins, designation, viscosity, classifications.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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.

International Standard ISO 4597/1 was developed by Technical Committee VIEW ISO/TC 61, *Plastics,* and was circulated to the member bodies in February 1978. (Standards.iten.ai)

It has been approved by the member bodies of the following countries :

		<u>SIST EN ISO 4597-1:2000</u>
Austria	https://standards	iteh.ai/catalos/standarficaisthep.c6cbc-7f91-4c54-9aca-
Belgium	Iran	7b14d9cfcfcfspain-en-iso-4597-1-2000
Bulgaria	Israel	Switzerland
Canada	Italy	Turkey
Czechoslovakia	Japan	United Kingdom
Egypt, Arab Rep. of	Korea, Rep. of	USA
France	Mexico	Yugoslavia
Germany, F.R.	Poland	
Hungary	Romania	

No member body expressed disapproval of the document.

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Plastics — Hardeners and accelerators for epoxide resins — Part 1 : Designation

1 Scope and field of application

This part of ISO 4597 specifies a method of designation for epoxide resin hardeners and accelerators.

The object of this designation method is to allocate to each commercial product a group of digits, called the "designation", giving in a coded form certain information on the product : chemical base, modifiers and solvents, viscosity and additives.

Thus all products having similar properties and therefore likely **Siteh.ai**) to have the same uses will have the same designation, so aiding **Siteh.ai**) users in their choice if producers list the designation in their **4 Designation o** data sheets. <u>SIST EN ISO 4597-</u> for epoxide resin

2 The value of the property in positions V and VI to be taken into consideration in defining in which class a product belongs is the mean value found in manufacture and normally given in data sheets.

In view of the inevitable variations in production, independently measured values on a resin designated as being in a particular class for a given property may possibly fall either,

 in the next lower class if the average value of the property is near the lower limit of the designation, or

Fin the next higher class if the average value is near the upper limit.

4 Designation of a hardener or accelerator for epoxide resin

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2 Reference

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

3 Designation system

The hardeners and accelerators are designated by four groups of two digits, separated by intervals. The first three groups refer to principal properties and the final group refers to a secondary property.

- Each successive group of two digits corresponds to a different property in the list given in the table.

 The position (or rank I and II, III and IV, etc.) of each successive group of two digits in the group indicates the property to which it refers.

— The numerical value of each successive group of two digits in the designation indicates the class (01, 02, 03, etc.) which corresponds to a certain composition or to a certain range of values of the property, as given in the table.

NOTES

1 Not every combination of property classifications will be achievable in practice. Note that the designation of a material will not correspond, except by chance, with a horizontal row in the table.

7b14d9cfcfc3/sist-en-iso-459llowing the designation system described in clause 3, a product shall be designated by four groups of two digits, separated by intervals.

- The first group of two digits designates the chemical base (see the table).

- The second group of two digits designates modifiers and solvents (see the table).

- The third group of two digits designates the viscosity of the product (see the table).

- The final group of two digits designates additives (see the table).

Example : A hardener or accelerator designated by 06 12 02 00 is a product based on modified cycloaliphatic polyamine, with accelerator and solvent, viscosity between 0,25 and 1 $Pa \cdot s$, without indication of additives.

NOTE — The designation does not exempt the producer from giving in his literature the actual values of the designated properties, together with tolerances of manufacture and measurement.

5 Special properties

These properties are not included in the designation.

In case they are necessary, they shall be given in actual values only and reference shall be made to the relevant International Standards for the test methods.