SLOVENSKI STANDARD

SIST HD 307.3.2 S2:1998

prva izdaja oktober 1998

Specification for solventless polymerisable resinous compounds used for electrical insulation - Part 3: Specifications for individual materials - Sheet 2: Quartz filled epoxy resinous compounds (IEC 60455-3-2:1987 + IEC 60455-3-2:1987/A1:1994)

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> Referenčna številka SIST HD 307.3.2 S2:1998(en)

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HARMONIZATION DOCUMENT DOCUMENT D'HARMONISATION **HARMONISIERUNGSDOKUMENT**

HD 307.3.2 S2

May 1997 -

UDC 621.315.616.96 ICS 29.040.20

Supersedes HD 307.3.2 S1:1989

Descriptors: Solid insulating material, solventless polymerisable resinous compounds, quartz filled epoxy resinous compounds, specification

English version

Specification for solventless polymerisable resinous compounds used for electrical insulation Part 3: Specifications for individual materials Sheet 2: Quartz filled epoxy resinous compounds (IEC 455-3-2:1987 + A1:1994)

Spécification relative aux composés Bestimmung für lösemittelfreie résineux polymérisables sans solvant härtbare Reaktionsharzmassen für utilisés comme isolants électriques die Elektroisolierung Partie 3: Spécifications pour les and iteTeit3:)Anforderungen an einzelne matériaux particuliers Werkstoffe Feuille 2: Composés résineux SIST HD 307.3.2 S2:1 Blatt 2: Mit Quarzmehl gefüllte époxydes chargés de silice ds. iteh ai/catalog/standards/sist/e Epoxidharzwerkstoffe (CEI 455-3-2:1987 + A1:1994):e6460b4/sist-hd-307-3-(HEC1455-3-2:1987 + A1:1994)

This Harmonization Document was approved by CENELEC on 1997-03-11. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning such national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

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

CENELEC

European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

The text of the International Standard IEC 455-3-2:1987 and its amendment 1:1994, prepared by SC 15C, Specifications, of IEC TC 15, Insulating materials, was submitted to the formal vote and was approved by CENELEC as HD 307.3.2 S2 on 1997-03-11 without any modification.

The following dates were fixed:

 latest date by which the existence of the HD has to be announced at national level 	(doa)	1997-06-01
 latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement 	(dop)	1997-12-01
- latest date by which the national standards conflicting		

with the HD have to be withdrawn (dow) 1997-12-01

Annexes designated "normative" are part of the body of the standard.

In this standard, annex ZA is normative.

Annex ZA has been added by CENELEC.

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The text of the International Standard IEC 455-3-2:1987 and its amendment 1:1994 was approved by CENELEC as a Harmonization Document without any modification.

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Annex ZA (normative)

Normative references to international publications with their corresponding 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: When 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>	EN/HD	Year
IEC 707	1981	Methods of test for the determination of the flammability of solid electrical insulating materials when exposed to an igniting source	HD 441 S1	1983

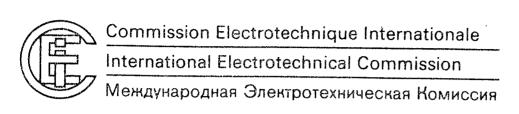
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NORME INTERNATIONALE INTERNATIONAL STANDARD



Spécification relative aux composés résineux polymérisables sans solvant utilisés comme isolants électriques

Troisième partie: Spécifications pour les matériaux particuliers W Feuille 2: Composés résineux époxydes chargés de silice

(standards.iteh.ai)

SIST HD 307.3.2 S2:1998 https://standards.iteh.ai/catalog/standards/sist/e259e168-2bfd-4f88-98e9-9481ce6460b4/sist-hd-307-3-2-s2-1998

Specification for solventless polymerisable resinous compounds used for electrical insulation

Part 3: Specifications for individual materials Sheet 2: Quartz filled epoxy resinous compounds

455-3-2 Première édition First edition 1987

INTERNATIONAL ELECTROTECHNICAL COMMISSION

SPECIFICATION FOR SOLVENTLESS POLYMERISABLE RESINOUS COMPOUNDS USED FOR ELECTRICAL INSULATION

Part 3: Specifications for individual materials Sheet 2: Quartz filled epoxy resinous compounds

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendations and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

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This standard has been prepared by Sub-Committee 15C: Specifications, of IEC Technical Committee No. 15: Insulating Materials. <u>SIST HD 307.3.2 S2:1998</u>

The text of this standard is based upon the following documents:

Six Months' Rule	Report on Voting
15C(CO)180	15C(CO)196

Further information can be found in the Report on Voting indicated in the table above.

The following IEC publication is quoted in this standard:

Publication No. 707 (1981): Methods of Test for the Determination of the Flammability of Solid Electrical Insulating Materials when Exposed to an Igniting Source.

SPECIFICATION FOR SOLVENTLESS POLYMERISABLE RESINOUS COMPOUNDS USED FOR ELECTRICAL INSULATION

Part 3: Specifications for individual materials Sheet 2: Quartz filled epoxy resinous compounds

Introduction

This standard is one of the series which deals with solventless polymerisable resinous compounds used for electrical insulation. The series has the following three parts:

Part 1: Definitions and general requirements (I E C Publication 455-1).

Part 2: Methods of test (I E C Publication 455-2).

Part 3: Specifications for individual materials (I E C Publication 455-3).

1. Scope

This Sheet 2 of Part 3 of the standard contains the requirements for quartz filled epoxy resinous compounds in the cured form (Types EP-F-1 to EP-F-6).

2. Requirements

The requirements for quartz filled epoxy resinous compounds in the cured form are given in Table I. ITEH STANDARD PREVIEW

Quartz filled epoxy resinous compounds purporting to comply with this standard shall contain between 45% and 65% by mass of quartz filler.

Note. — Materials for use in low temperature conditions may require additional tests not specified in this sheet to establish their suitability.

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3. Special requirements

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When any of the following special properties are used in the purchase contract the method of test given below shall be used: .

Property	Test method in Part 2	
	Clause	
Viscosity	4	
Ash content	7	
Volatile content	11	
Epoxy equivalent	12	
Shelf-life	14	
Pot-life Pot-life	15	
Exothermic temperature peak	17	
Curing in thick layers	18	
Total shrinkage	20	