



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60455-3-5:2006

ICS 29.035.01

**RESIN BASED REACTIVE COMPOUNDS
USED FOR ELECTRICAL INSULATION --
PART 3: SPECIFICATIONS FOR INDIVIDUAL
MATERIALS -- SHEET 5: UNSATURATED
POLYESTER BASED IMPREGNATING
RESINS**

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Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60455-3-5

April 2006

ICS 29.035.01

Supersedes EN 60455-3-5:2001

English version

Resin based reactive compounds used for electrical insulation
Part 3: Specifications for individual materials
Sheet 5: Unsaturated polyester based impregnating resins
(IEC 60455-3-5:2006)

Composés réactifs à base de résines
utilisés comme isolants électriques
Partie 3: Spécifications
pour matériaux particuliers
Feuille 5: Résines d'imprégnation à base
de polyester insaturé
(CEI 60455-3-5:2006)

Reaktionsharzmassen
für die Elektroisolierung
Teil 3: Anforderungen
an einzelne Werkstoffe
Blatt 5: Imprägnierharzwerkstoffe
auf Basis ungesättigter Polyester
(IEC 60455-3-5:2006)

This European Standard was approved by CENELEC on 2006-02-01. CENELEC 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 CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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

Foreword

The text of document 15/237/FDIS, future edition 3 of IEC 60455-3-5, prepared by IEC TC 15, Standards on specifications for electrical insulating materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60455-3-5 on 2006-02-01.

This European Standard supersedes 60455-3-5:2001.

The major changes from EN 60455-3-5:2001 concern the introduction of unsaturated polyester with low emission of volatile organic components. A definition, requirements and a test method for curing in thick layer and emissions during curing were added.

The following dates were fixed:

- | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2006-11-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2009-02-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60455-3-5:2006 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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>	<u>EN/HD</u>	<u>Year</u>
IEC 60172	1987	Test procedure for the determination of the temperature index of enamelled winding wires	EN 60172	1994
IEC 60317-8	1990	Specifications for particular types of winding wires Part 8: Polyesterimide enamelled round copper wire, class 180	EN 60317-8	1994
IEC 60317-13	1990	Part 13: Polyester or polyesterimide overcoated with polyamide-imide enamelled round copper wire, class 200	EN 60317-13	1994
IEC 60455-1	1998	Resin based reactive compounds used for electrical insulation Part 1: Definitions and general requirements	EN 60455-1	1998
IEC 60455-2	1998	Part 2: Methods of test	EN 60455-2	1999
IEC 60464-2	2001	Varnishes used for electrical insulation Part 2: Methods of test	EN 60464-2	2001
IEC 61033	1991	Test methods for the determination of bond strength of impregnating agents to an enamelled wire substrate	-	-

**NORME
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2006-03

**Composés réactifs à base de résines
utilisés comme isolants électriques –**

**Partie 3:
Spécifications pour matériaux particuliers –
Feuille 5: Résines d'imprégnation à base de
polyester insaturé**

**Resin based reactive compounds used
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**Part 3:
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Sheet 5: Unsaturated polyester based
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