

SLOVENSKI STANDARD SIST EN 60819-1:2013

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Nadomešča: SIST EN 60819-1:1998 SIST EN 60819-1:1998/A1:1998

Brezcelulozni papirji za uporabo na področju elektrike - 1. del: Definicije in splošne zahteve (IEC 60819-1:2009)

Non-cellulosic papers for electrical purposes -- Part 1: Definitions and general requirements (IEC 60819-1:2009)

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Papiers non cellulosiques à usages électriques 2-1 Partie 1: Définitions et exigences générales fa1493ebf752/sist-en-60819-1-2013

Ta slovenski standard je istoveten z: EN 60819-1:2012

<u>ICS:</u>

29.035.10 Papirni in kartonski izolacijski Paper and board insulating materiali materials

SIST EN 60819-1:2013

en



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SIST EN 60819-1:2013

EUROPEAN STANDARD NORME FUROPÉENNE EUROPÄISCHE NORM

EN 60819-1

February 2012

ICS 29.035.10

Supersedes EN 60819-1:1995 + A1:1996

English version

Non-cellulosic papers for electrical purposes -Part 1: Definitions and general requirements (IEC 60819-1:2009)

Papiers non cellulosiques à usages électriques -Partie 1: Définitions et exigences dénérales (CEI 60819-1:2009)

Vliesstoffe auf Kunststofffaserbasis für elektrotechnische Zwecke -Teil 1: Begriffe und allgemeine Anforderungen (IEC 60819-1:2009)

iTeh STANDARD PREVIEW

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CENELEC

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

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Foreword

This document (EN 60819-1:2012) consists of the text of IEC 60819-1:2009 prepared by IEC/TC 15 "Solid electrical insulating materials".

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2012-11-14
•	latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2015-02-14

This document supersedes EN 60819-1:1995 + A1:1996.

EN 60819-1:2012 includes the following significant technical changes with respect to EN 60819-1:1995:

The list of materials to be used in combination was updated with the addition of new materials made available by progress in technology and described in Subclauses 2.7 and 2.8.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

SIST EN 60819-1:2013

The text of the International Standard EC 60819=1:2009 Was7approved by CENELEC as a European Standard without any modification. fa1493ebf752/sist-en-60819-1-2013

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

 IEC 60819-3-1
 NOTE
 Harmonized as EN 60819-3-1.

 IEC 60819-3-2
 NOTE
 Harmonized as EN 60819-3-2.

 IEC 60819-3-3
 NOTE
 Harmonized as EN 60819-3-3.

 IEC 60819-3-4
 NOTE
 Harmonized as EN 60819-3-4.



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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Non-cellulosic papers for electrical purposes PREVIEW Part 1: Definitions and general requirements (Standards.tteh.ai)

Papiers non cellulosiques à usages électriques – Partie 1: Définitions et exigences générales/384d227b-b81d-429e-854cfa1493ebf752/sist-en-60819-1-2013

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

NON-CELLULOSIC PAPERS FOR ELECTRICAL PURPOSES -

Part 1: Definitions and general requirements

FOREWORD

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International Standard IEC 60819-1 has been prepared by IEC technical committee 15: Solid electrical insulating materials.

This third edition cancels and replaces the second edition published in 1995, and constitutes a minor revision and technical updating.

The main changes from the previous edition are as follows: the list of materials to be used in combination was updated with the addition of new materials made available by progress in technology and described in Subclauses 2.7 and 2.8.

60819-1 © IEC:2009

- 3 -

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

CDV	Report on voting
15/471/CDV	15/506A/RVC

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 60819 series, under the general title *Non-cellulosic papers for electrical purposes*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

This International Standard forms an element of a series which deals with non-cellulosic papers for electrical purposes.

The series consists of three parts:

- Part 1: Definitions and general requirements (IEC 60819-1)
- Part 2: Methods of test (IEC 60819-2)
- Part 3: Specifications for individual materials (IEC 60819-3)

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NON-CELLULOSIC PAPERS FOR ELECTRICAL PURPOSES -

Part 1: Definitions and general requirements

1 Scope

This part of IEC 60819 gives the definitions and general requirements for non-cellulosic papers for electrical purposes.

Materials which conform to this specification meet established levels of performance. However, the selection of a material by a user for a specific application should be based on the actual requirements necessary for adequate performance in that application and not based on this specification alone.

SAFETY WARNING

It is the responsibility of the user of the methods contained or referred to in this document to ensure that they are used in a safe manner.

2 Terms and definitions STANDARD PREVIEW

For the purpose of this document, the following definitions apply:

2.1

SIST EN 60819-1:2013

aramid (aromatic polyamide) paperatalog/standards/sist/384d227b-b81d-429e-854c-

wet-laid, non-woven paper in which³the⁵fibres^{nare} synthetic aromatic polyamide having at least 85 % of the amide linkage attached directly to two aromatic rings. Aramid paper may contain materials with or without the addition of suitable organic and/or inorganic filler and/or binder materials.

2.2

polyethylene paper

wet-laid, non-woven paper made from specially prepared polyethylene (PE) fibres with or without the addition of suitable organic and/or inorganic filler and/or binder materials

2.3

polypropylene paper

wet-laid, non-woven paper made from specially prepared polypropylene fibres (PP) with or without the addition of suitable organic and/or inorganic filler and/or binder materials

2.4

glass paper

wet-laid, non-woven paper made from glass micro-fibres made with or without the addition of suitable organic and/or inorganic filler and/or binder materials. In cases of poor fibre adhesion, the situation may be remedied by acid treatment to produce a slight gelation which will act as a binder, or by adding an inorganic binder.

2.5

ceramic paper

wet-laid, non-woven paper made from ceramic fibres. For examples, alumina-silica paper composed of approximately 51 % alumina (Al_2O_3) and 47 % silica (SiO₂). Ceramic papers may be modified with or without the addition of suitable organic and/or inorganic filler and/or binder materials.