

BS EN 61039:2008



BSI Standards Publication

Classification of insulating liquids

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National foreword

This British Standard is the UK implementation of EN 61039:2008. It is identical to IEC 61039:2008.

The UK participation in its preparation was entrusted to Technical Committee GEL/10, Fluids for electrotechnical applications.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 March 2009.

Amendments issued since publication

Amd. No.	Date	Text affected
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English version

Classification of insulating liquids
(IEC 61039:2008)

Classification des liquides isolants
(CEI 61039:2008)

Klassifizierung der Isolierflüssigkeiten
(IEC 61039:2008)

This European Standard was approved by CENELEC on 2008-10-01. 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.

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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

The text of document 10/741/FDIS, future edition 2 of IEC 61039, prepared by IEC TC 10, Fluids for electrotechnical applications, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61039 on 2008-10-01.

This European Standard supersedes HD 618 S1:1992.

The main change with regard to HD 618 S1:1992 concerns the updating of the classification of insulating liquids, taking into account the largest number possible of substances that have, or may have, possible application in electrical components.

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) 2009-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2011-10-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61039:2008 was approved by CENELEC as a European Standard without any modification.

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

IEC 61100	NOTE Harmonized as EN 61100:1992 (not modified).
ISO 2719	NOTE Harmonized as EN ISO 2719:2002 (not modified).

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/TS 60076-14	2004	Power transformers - Part 14: Design and application of liquid-immersed power transformers using high-temperature insulation materials	-	-
IEC 60296	2003	Fluids for electrotechnical applications - Unused mineral insulating oils for transformers and switchgear	EN 60296 + corr. September	2004 2004
IEC 60465	1988	Specification for unused insulating mineral oils for cables with oil ducts	EN 60465	1990
IEC 60836	2005	Specifications for unused silicone insulating liquids for electrotechnical purposes	EN 60836	2005
IEC 60867	1993	Insulating liquids - Specifications for unused liquids based on synthetic aromatic hydrocarbons	EN 60867	1994
IEC 60963	1988	Specification for unused polybutenes	HD 582 S1	1991
IEC 61099	1992	Specification for unused synthetic organic esters for electrical purposes	EN 61099	1992
ISO 1928	1995	Solid mineral fuels - Determination of gross calorific value by the bomb calorimetric method, and calculation of net calorific value	-	-
ISO 2592	2000	Determination of flash and fire points - Cleveland open cup method	EN ISO 2592	2001
ISO 6743-99	2002	Lubricants, industrial oils and related products (class L) - Classification - Part 99: General	-	-
ISO 8681	1986	Petroleum products and lubricants - Method of classification - Definition of classes	-	-
OECD 301	1992	OECD guidelines for the testing of chemicals - Ready Biodegradability	-	-
ASTM D240-02	- ¹⁾	Standard test method for heat of combustion of liquid hydrocarbon fuels by bomb calorimeter	-	-

¹⁾ Undated reference.