BRITISH STANDARD

BS EN 60672-1:1996
IEC 672-1: 1995

Ceramic and glass insulating materials —

Part 1: Definitions and classification

The European Standard EN 60672-1:1995 has the status of a British Standard

ICS 01.040.29; 29.040.20

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee GEL/15, Insulating materials, upon which the following bodies were represented:

British Ceramic Research Ltd.
British Industrial Ceramic Manufacturers' Association
British Telecommunications plc
Department of Trade and Industry (National Physical Laboratory)
Electrical and Electronic Insulation Association (BEAMA Ltd.)
Electricity Association
Federation of the Electronics Industry
Ministry of Defence
Rotating Electrical Machines Association (BEAMA Ltd.)
Transmission and Distribution Association (BEAMA Ltd.)

The following body was also represented in the drafting of the standard, through subcommittees and panels:

ERA Technology Ltd.

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on
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The following BSI references relate to the work on this standard:
Committee reference GEL/15
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National foreword

This Part of BS EN 60672 has been prepared by Technical Committee GEL/15 and is the English language version of EN 60672-1:1995 *Ceramic and glass insulating materials — Part 1: Definitions and classification* published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 672-1:1995 published by the International Electrotechnical Commission (IEC). This British Standard supersedes BS 6045-1:1981, which is withdrawn.

The 1995 edition of IEC 672-1 cancels and replaces the first edition IEC 672-1 (1980) and constitutes a technical revision. The intention has been to improve the instruction to the user by defining more clearly the types of material that fall into the individual classes of the classification as an aid to their effective selection and use.

The class of ceramic insulating materials that has been deleted from the first edition is Class C 830, zirconia ceramics, for the reason that there are no known applications where zirconia, with its inferior properties to those of alumina, would be used as an insulator.

Additional classes of ceramic and glass materials which are in common use for electrical insulation but which were excluded from the previous edition have been incorporated specifically:

C 140 Lithia porcelains
C 430 Lime-based porcelains
C 440 Zircon porcelains
C 910 Aluminium nitrides
C 920 Boron nitrides
C 930 Reaction bonded silicon nitride
C 935 Dense silicon nitrides

GC 110 Glass-ceramics, bulk type
GC 120 Glass-ceramics, sintered type

GM 110 Glass-bonded mica, natural mica and glass frit
GM 120 Glass-bonded mica, glass-ceramic type

G 795 High silica glass, > 95 % to 99 % SiO_2
G 799 High-silica glass, > 99 % SiO_2

There has been some rationalization of the class numbering for borosilicate glasses:

— the former G 200 and G 300 groups have been combined under G 200;

— the former group G 200, chemically resistant borosilicate glass, has been renumbered G 220;

— the former subgroup G 310, low loss electrically resistant glass, has been renumbered G 231;

— the former subgroup G 320, high voltage electrically resistant glass, has been renumbered G 232.

Cross-reference

Publication referred to	Corresponding British Standard
EN 61006:1993 (IEC 1006:1991)	BS EN 61006:1993 *Methods of test for determination of the glass transition temperature of electrical insulating materials*

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Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, the EN title page, pages 2 to 14, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60672-1

July 1995

ICS 01.040.29; 29.040.20

Supersedes HD 426.1 S1:1983

Descriptors: Ceramic and glass insulants, classification, properties, definitions

English version

Ceramic and glass insulating materials
Part 1: Definitions and classification

(IEC 672-1:1995)

Matériaux isolants à base de céramique ou de verre
Partie 1: Définitions et classification
(CEI 672-1:1995)

Keramik- und Glas-Isolierstoffe
Teil 1: Begriffe und Gruppeneinteilung
(IEC 672-1:1995)

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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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