

Determination of

Loss tangent and permittivity of electrical insulating materials in sheet form (Lynch method)

Co-operating organizations

The Electrical Industry Standards Committee, under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

- Associated Offices' Technical Committee
- Association of Consulting Engineers
- Association of Mining Electrical and Mechanical Engineers
- Association of Supervising Electrical Engineers
- British Electrical and Allied Manufacturers' Association*
- British Radio Equipment Manufacturers' Association
- British Railways Board
- Crown Agents for Oversea Governments and Administrations
- Department of Employment and Productivity
- Electric Cable Makers' Confederation
- Electric Lamp Industry Council
- Electric Light Fittings Association
- Electrical Contractors' Association (Incorporated)
- Electrical Contractors' Association of Scotland
- Electrical Research Association*
- Electricity Council, the Central Electricity Generating Board and the Area Boards in England and Wales*
- Electronic Engineering Association
- Engineering Equipment Users' Association
- Institution of Electrical Engineers
- Ministry of Defence
- Ministry of Defence, Army Department
- Ministry of Defence, Navy Department
- Ministry of Power
- Ministry of Public Building and Works
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- Post Office*
- Public Transport Association (Incorporated)
- South of Scotland Electricity Board

The Government departments and scientific and industrial organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

- British Plastics Federation
- Radio and Electronic Component Manufacturers' Federation

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Foreword

This standard makes reference to the following British Standard:

BS 2067, *Determination of power-factor and permittivity of insulating materials (Hartshorn and Ward method)*.

The method described in this British Standard for the determination of the loss tangent and permittivity of electrical insulating materials at frequencies of from 1 kHz to 100 kHz is based on that described in the Proceedings of the Institution of Electrical Engineers, 1966, Vol. 112, pp. 426–431. The work of the Electrical Research Association in checking the accuracy and reproducibility of the results is acknowledged.

The method given here is intended to supplement BS 2067, “*Determination of power-factor and permittivity of insulating materials (Hartshorn and Ward method)*”, and covers a slightly different range of frequency.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6 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.