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WAR EMERGENCY

BRITISH STANDARD

SPECIFICATION

FOR

SYNTHETIC-RESIN BONDED FABRIC SHEET

FOR

ELECTRICAL AND MECHANICAL PURPOSES.

LONDON:

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This Specification, having been approved by the Electrical Industry Committee, and endorsed by the Chairman of the Engineering Divisional Council, was published under the authority of the General Council as a British Standard on 18th August, 1941.

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CO-OPERATING ORGANISATIONS.

The Electrical Industry Committee,† under whose supervision this Specification was prepared, consists of representatives from the following Government Departments and Scientific and Industrial Organisations:—

*Admiralty.	Electrical Contractors' Association (Incorporated).
Central Electricity Board.	Electric Lamp Manufacturers' Association.
*Electricity Commissioners.	Incorporated Association of Electric Power Companies.
*General Post Office.	Incorporated Municipal Electrical Association.
*Home Office.	Institution of Electrical Engineers.
*Ministry of Supply.	London Electricity Supply Association.
Ministry of Works and Buildings.	Provincial Electric Supply Association.
*National Physical Laboratory.	Public Service Transport Association.
Association of Consulting Engineers.	Railway Companies of Great Britain.
*British Electrical and Allied Manufacturers' Association.	
*British Electrical and Allied Industries Research Association.	
Cable Makers' Association.	

The Government Departments and Scientific and Industrial Organisations 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:—

Air Ministry.	
Government Laboratory.	
British Plastics Federation.	
London Shellac Research Bureau.	
National Federation of Associated Paint, Colour and Varnish Manufacturers.	
Radio Manufacturers Association.	

† The Electrical Industry Committee is the British National Committee of the International Electrotechnical Commission.

FOREWORD

The majority of the British Standard Specifications for electrical insulating materials are based on technical data submitted by the British Electrical and Allied Industries Research Association. In the present instance, however, the Electrical Research Association has not undertaken an investigation into the properties of the materials covered by the Specification. It is hoped that such an investigation will in due course be made with a view to a revision of the Specification, and in the meantime the Specification is issued as a War Emergency Standard.

Hitherto B.S. 668—1936, Laminated Synthetic Resin Bonded Sheet (Fabric Base) for use as Gear Material, has been the only B.S. Specification covering synthetic-resin bonded fabric sheet.

The present Specification is intended to provide for types of synthetic-resin bonded fabric sheet having properties which make these types of material suitable for electrical purposes. These types may also be more suitable than the gear material for certain purely mechanical applications. When the material is intended solely for mechanical applications the electrical tests given in the Specification are not necessary, and the application of some of the clauses in the Specification is therefore optional.

It is recommended that when the material is required for electrical insulation, it should be used only for voltages not exceeding 660 volts and at temperatures not exceeding 90°C. Whilst materials are obtainable of the type covered by the Specification with higher insulation resistance and electric strength along the laminae, such materials are not, however, included within the scope of this Specification.

Attention is drawn to the fact that synthetic-resin bonded paper sheets are dealt with in the following British Standards:—

B.S. 316—1929.—Synthetic-Resin Varnish-Paper Boards and Tubes for General Electrical Purposes.

B.S. 547—1934.—Synthetic-Resin Bonded-Paper Sheets (Grade 1) for Electrical Purposes.

In order to keep abreast of progress in the Industries concerned, the British Standards are subject to periodical review. Suggestions for improvements will be recorded, and in due course brought to the notice of the Committees charged with the revision of the standards to which they refer.

NOTE.—The Institution desires to call attention to the fact that this Specification is intended to include the technical provisions necessary for the supply of the material herein referred to, but does not purport to include all the necessary provisions of a contract.

WAR EMERGENCY

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BRITISH STANDARD
SPECIFICATION

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SYNTHETIC-RESIN BONDED FABRIC SHEET

FOR

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ELECTRICAL AND MECHANICAL PURPOSES.

PART I. GENERAL.

Scope.

1. This Specification covers three types of synthetic-resin bonded fabric sheet of thickness between $\frac{3}{64}$ in. and 4 in. having 15 properties suitable for electrical and mechanical purposes.

It is not intended that these materials shall necessarily comply with the requirements of all the clauses in this Specification. The clauses referred to in Part 2 are mandatory, and material purporting to be British Standard shall comply with the requirements of these 20 clauses.

When stated with the enquiry and/or order that the material is required for electrical purposes, Clause 15, Electrical Tests, shall be a mandatory clause. Material which fulfils the requirements of the mandatory clauses shall be deemed to comply with this 25 Specification.

When a purchaser requires material to comply with any of the optional clauses, this shall be stated with the enquiry and/or order, the particular clauses being specified; and any test carried out shall be made in accordance with the appropriate Appendix of this 30 Specification.

It is recommended that the material be used for voltages not exceeding 660 volts and at temperatures not exceeding 90°C.

NOTE.—Materials of the type covered by the Specification, having higher insulation resistance and higher electric strength than the values specified, are obtainable but such materials are not included within the scope of the Specification.