

Specification for

Safety of household electrical appliances —

Part 2: Particular requirements —

Section 2.21 Electric immersion heaters

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 Manufacturers of Domestic Electrical Appliances*
- Association of Mining Electrical and Mechanical Engineers
- Association of Supervisory and Executive 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
- Department of the Environment*
- Department of Trade and Industry
- Electric Cable Makers' Confederation
- 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*
- Lighting Industry Federation Limited
- Ministry of Aviation Supply
- Ministry of Defence
- Ministry of Defence, Army Department
- Ministry of Defence, Navy Department*
- Municipal Passenger Transport Association (Incorporated)
- National Inspection Council for Electrical Installation Contracting
- National Physical Laboratory (Department of Trade and Industry)
- Oil Companies Materials Association
- Post Office
- Public Road Transport Association
- 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:

This British Standard, having been approved by the Electrical Industry Standards Committee, was published under the authority of the Executive Board on 15 May 1972

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The following BSI references relate to the work on this standard:
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- British Electrotechnical Approvals Board for Household Equipment
- Consumers' Association
- Electrical Association for Women
- Fire Protection Association
- Home Office
- Institution of Electrical and Electronics Technician Engineers
- Royal Institute of British Architects
- Small Electric Motor Manufacturers' Association
- Women's Advisory Committee of BSI

Amendments issued since publication

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Contents

	Page
Co-operating organizations	Inside front cover
Foreword	ii
1 Scope	1
2 Definitions	1
3 General requirement	1
4 General conditions for the tests	1
5 Rating	1
6 Classification	1
7 Marking	1
8 Protection against electric shock	2
9 Starting of motor-operated appliances	2
10 Input	2
11 Heating	2
12 Operation under overload conditions	2
13 Electrical insulation at operating temperature	2
14 Radio-interference suppression	2
15 Moisture resistance	2
16 Insulation resistance and electric strength	2
17 Overload protection	2
18 Endurance	2
19 Abnormal operation	3
20 Stability and mechanical hazards	3
21 Mechanical strength	3
22 Construction	3
23 Internal wiring	3
24 Components	3
25 Supply connection and external flexible cables and cords	3
26 Terminals for external conductors	4
27 Provision for earthing	4
28 Screws and connections	4
29 Creepage distances, clearances and distances through insulation	4
30 Resistance to heat, fire and tracking	4
31 Resistance to rusting	4
Appendix A Preferred dimensions for electric immersion heaters	5
Appendix B Effect of non-metallic materials on water quality	6
Figure 1 — Preferred dimensions	5
Table 1 — Dimensions of immersion heater heads	5

Foreword

This standard makes reference to the following British Standards:

BS 417, *Galvanized mild steel cisterns and covers, tanks and cylinders.*

BS 699, *Copper cylinders for domestic purposes.*

BS 1565, *Galvanized mild steel indirect cylinders, annular or saddle-back type.*

BS 1566, *Copper indirect cylinders for domestic purposes.*

BS 1845, *Filler metals for brazing.*

BS 2494, *Specification for elastomeric joint rings for pipework and pipelines.*

BS 3198, *Combination hot water storage units (copper) for domestic purposes.*

BS 3955, *Electrical controls for domestic appliances.*

BS 6141, *Insulated cables and flexible cords for use in high temperature zones.*

This revised British Standard has been prepared under the authority of the Electrical Industry Standards Committee and is one of a series of sections of the specification for Safety of household electrical appliances¹⁾.

The revision is necessary because BS 3456, Section A1, “*General requirements for heating and cooking appliances*”, and Section B1, “*General requirements for motor-operated appliances*”, have been revised in order to bring these sections into alignment with the corresponding Publications of the International Commission on Rules for the Approval of Electrical Equipment (CEE). These are Parts I of CEE Publications 10 and 11 (second editions) for motor-operated appliances and for cooking and heating appliances respectively.

The opportunity has been taken to amalgamate Sections A1 and B1 into a single Part 1, “*General requirements*”, and this Section 2.21 is one of many in Part 2, “*Particular requirements*”.

This Section 2.21 specifies requirements which depart from, or are additional to, those given in BS 3456-1, “*General requirements*”, and the clauses are numbered to correspond with those given in Part 1.

For two years from May, 1972 manufacturers seeking approval for their appliances may do so on the basis of the 1966 edition of BS 3456, Section A1 and the 1963 edition of Section A8, OR on the basis of BS 3456-1:1969, coupled with this edition of Section 2.21. Thereafter, only the latter combination will be used for approval purposes and Section A8 will be withdrawn.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

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.

¹⁾ See page 5 of this standard.