

Australian Standard®

**PERFORMANCE OF HOUSEHOLD
ELECTRICAL APPLIANCES**

**HOTPLATES FOR USE IN
RANGES AND BUILT-IN
COOKING TOPS**

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Australian Consumers Association
Australian Electrical and Electronic Manufacturers Association
Australian Federation of Consumer Organizations
Australian Retailers Association
Confederation of Australian Industry
Department of Consumer Affairs, N.S.W.
Electricity Supply Association of Australia
Housing Commission of New South Wales

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COOKING TOPS**

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PREFACE

This edition of this standard was prepared by the Association's Committee on Quality and Performance of Household Electrical Appliances to supersede AS 1550 — 1974.

This edition incorporates Amendment No 1 to AS 1550 — 1974 issued February 1976, and also includes a revised definition of hotplate, amendments to Table 2.1 and Appendix A to cover standard hotplates and smooth-top cooking surfaces, and a revised endurance test for hotplates having integral temperature-limiting devices. New provisions cover standard plug-in and wired-in circular radiant type hotplates.

It is intended that the date of application of the new provisions of this edition, for the purposes of certification in accordance with the AS Mark scheme (see Clause 2.6), be 12 months from the date of publication.

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* Under consideration.

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Australian Standard

for

**PERFORMANCE OF HOUSEHOLD ELECTRICAL APPLIANCES—HOTPLATES
FOR USE IN ELECTRIC RANGES AND BUILT-IN COOKING TOPS**

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This standard specifies requirements for solid and radiant electric hotplates intended for operation at low voltage in household electric ranges and built-in cooking tops. It includes provisions relating to construction and finish, minimum performance requirements and standard methods of testing.

Griddle hotplates which are intended solely for the surface cooking of food by direct contact are excluded from this standard.

For the purpose of this standard hotplates are designated as 'boiling hotplates' and 'griller hotplates' (grill-boiler plates) depending on their function (for definitions, see Clauses 1.4.5 and 1.4.6 respectively).

1.2 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

- AS 1549 Performance of Household Electrical Appliances—Ranges, Built-in Cooking Tops and Wall-mounted Ovens
- AS 3100 Approval and Test Specification for Definitions and General Requirements for Electrical Materials and Equipment
- AS 3172 Approval and Test Specification for Electric Cooking Appliances for Household Use

1.3 SAFETY REQUIREMENTS. This standard does not include the electrical safety requirements which must be observed to secure approval for the connection or sale of electric hotplates in all states. Hotplates shall, in addition to complying with this standard, comply with the appropriate requirements of AS 3172.

1.4 DEFINITIONS. For the purpose of this standard, the following definitions apply:

1.4.1 Hotplate—a surface heating unit, or an under surface heating unit (as defined in AS 1549) together with the supporting sheet directly above it.

NOTE: A hotplate may also incorporate facilities for grilling (see Clause 1.4.6).

1.4.2 Solid hotplate—a hotplate having one or more heating elements contained within or inserted into a solid, e.g. cast or sintered metal, body.

1.4.3 Radiant hotplate—a hotplate having one or more heating elements enclosed within a tubular metallic sheath or sheaths.

1.4.4 Sealed hotplate—a hotplate designed for hob-mounting, and to prevent spillage through the cooking top.

1.4.5 Boiling hotplate—a hotplate designed to accommodate one or more cooking vessels, with no facilities for grilling.

1.4.6 Griller hotplate (Grill-boiler plate) (for use on portable ranges only)—a hotplate which combines the function of a boiling plate and a grilling unit.

1.4.7 Heating element—the actual electrical conducting medium which is intended to be heated by an electric current.

1.4.8 Heating unit—a heating element together with its insulation and supports and immediate enclosure, if any.

1.4.9 Cooking hob—that portion of a cooking top consisting of the external horizontal surface containing or surrounding the hotplate or hotplates.

1.4.10 Cooking top—an assembly consisting of the cooking hob including one or more hotplates, and, where appropriate, spillage collectors and the splash-back.