

AS/NZS 60335.2.35:2004
(Incorporating Amendment No. 1)

AS/NZS 60335.2.35:2004

Australian/New Zealand Standard™

**Household and similar electrical
appliances—Safety**

**Part 2.35: Particular requirements for
instantaneous water heaters
(IEC 60335-2-35 Ed 4.1, IDT)**



AS/NZS 60335.2.35:2004

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-002, Safety of Household and Similar Electrical Appliances and Small Power Transformers. It was approved on behalf of the Council of Standards Australia on 20 August 2004 and on behalf of the Council of Standards New Zealand on 3 September 2004.

This Standard was published on 15 October 2004.

The following are represented on Committee EL-002:

Australian Industry Group
Australian Retailers Association
Australian Electrical and Electronic Manufacturers Association
Business New Zealand
Consumer Electronic Suppliers Association, Australia
Consumers' Federation of Australia
Electrical regulatory authorities, Australia
Electrical Compliance Testing Association
Electrical consultants
Electricity Supply Association of Australia
Ministry of Consumer Affairs, New Zealand

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

AS/NZS 60335.2.35:2004
(Incorporating Amendment No. 1)

Australian/New Zealand Standard™

**Household and similar electrical
appliances—Safety**

**Part 2.35: Particular requirements for
instantaneous water heaters
(IEC 60335-2-35 Ed 4.1, IDT)**

Originated in Australia as part of AS C1421—1941.
Previous edition AS 3142—1994.
Originated in New Zealand as NZS 6335:1990.
Jointly revised and redesignated AS/NZS 3350.2.35:1999.
Jointly revised and redesignated AS/NZS 60335.2.35:2004.
Reissued incorporating Amendment No. 1 (May 2007).

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 6286 7

CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope	7
2 Normative references	7
3 Definitions	7
4 General requirement.....	8
5 General conditions for the tests	8
6 Classification.....	9
7 Marking and instructions	9
8 Protection against access to live parts	10
9 Starting of motor-operated appliances.....	10
10 Power input and current.....	10
11 Heating	11
12 Void	11
13 Leakage current and electric strength at operating temperature	11
14 Transient overvoltages	11
15 Moisture resistance	11
16 Leakage current and electric strength	11
17 Overload protection of transformers and associated circuits	12
18 Endurance.....	12
19 Abnormal operation	12
20 Stability and mechanical hazards.....	12
21 Mechanical strength	12
22 Construction.....	13
23 Internal wiring.....	16
24 Components	16
25 Supply connection and external flexible cords	17
26 Terminals for external conductors	17
27 Provision for earthing.....	17
28 Screws and connections	17
29 Clearances, creepage distances and solid insulation	17
30 Resistance to heat and fire	18
31 Resistance to rusting	18
32 Radiation, toxicity and similar hazards	18
Annexes	22
Annex A (informative) Routine tests	22
Annex ZZ (informative) Variations to IEC 60335-2-35 Ed 4.1 for application in Australia and New Zealand	23

Bibliography	24
Figure 101 – Diagram for the leakage current measurement for single-phase bare-element water heaters	19
Figure 102 – Diagram for the leakage current measurement for three-phase bare-element water heaters	20
Figure 103 – Diagram for the leakage current measurement for single-phase bare-element water heaters supplied by a supply cord fitted with a plug	21

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-