AS 3106—1980
UDC 621.31:643.352.5

Australian Standard 3106—1980

APPROVAL AND TEST SPECIFICATION FOR ELECTRIC JUGS (WITH NON-METALLIC BODIES)

PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY, N.S.W.
Incorporated by Royal Charter

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THE FOLLOWING INDUSTRIAL, SCIENTIFIC AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this specification:

Australian Chamber of Commerce

Australian Electrical and Electronic Manufacturers Association

Confederation of Australian Industry

Electrical Apparatus Approvals Authorities

Electrical Contractors Associations of Australia

Electrical Testing Laboratories

Electricity Supply Association of Australia

Electronic Importers Association

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STANDARDS ASSOCIATION OF AUSTRALIA

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AMENDMENT No 3
to
AS 3106—1980
Approval and Test Specification for
ELECTRIC JUGS (WITH NON-METALLIC BODIES)

REVISED TEXT

The 1980 edition of AS 3106 which was amended in March 1982 and May 1983, is further amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Clauses 11 and 12.2.

Published on 7 October 1983.

Page 8. Clause 11.

Delete first paragraph and *substitute:*

11 LOADING. The loading in watts, when measured as described in Clause 12.2, shall not be more than 10 percent above the watts marked on the electric jug. AMDT No 3 OCT. 1983

This amendment forms part of the specification upon publication.

Page 9. Clause 12.2.

Delete first paragraph and *substitute:*

12.2 Loading. The jug shall be approximately two thirds filled with a solution of sodium sulphate in distilled water containing approximately 0.15 g of crystalline salt ($Na_2SO_4.10H_2O$) and about 2 ml of wetting agent per litre, to obtain a resistivity of $4500 \pm 200\ \Omega$ cm at 25° C. With the jug operating at the marked voltage (the highest voltage if more than one voltage is marked), the current shall be measured until boiling occurs. The loading in watts shall be calculated from the product of the volts and the highest current (in amperes) measured. AMDT No 3 OCT. 1983

This amendment forms part of the specification 6 months after publication.

STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No 2
to
AS 3106—1980
Approval and Test Specification for
ELECTRIC JUGS

REVISED TEXT

The 1980 edition of AS 3106 which was previously amended in March 1982 is further amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: The following section of the standard is covered by this amendment: Table 1.

Published on 9 May 1983.

Page 8. Table 1.

AMDT
No 2
MAY
1983

After Test No 3 *add* the following test:

4	High Voltage Test†	8.4 of AS 3100

†This test is carried out under the same conditions as specified for Test No 3.

Renumber test numbers 4 to 7 as 5 to 8.

This amendment forms part of the specification 6 months after publication.

Amendment No 1
March 1982

STANDARDS ASSOCIATION OF AUSTRALIA

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AMENDMENT No 1
to
AS 3106—1980
SAA Approval and Test Specification
for
ELECTRIC JUGS

The 1980 edition of AS 3106 is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Table 1 and new Clauses 12.7 and 13.8. In addition a number of references to AS C100 have been changed to AS 3100.

Published on 15 March 1982.

PREFACE

This specification, prepared by Committee EL/2, Electrical Approvals Standards, was approved on behalf of the Council of the Standards Association of Australia on 25 February 1980, and was published on 1 May 1980.

It is one of a series of approval and test specifications issued by the Association under Part 2 of the SAA Wiring Rules. These specifications are accompanied by a general specification AS ~~C100~~ 3100, containing definitions and general requirements for electrical materials and equipment. The purpose of these specifications is to outline conditions which must be met to secure approval for the sale and use of electrical equipment in Australia. Only safety matters and related conditions are covered. SEE AMENDMENT No. 1

This edition was published to incorporate into the specification the previous three amendments to AS 3106—1974 and to effect changes to Clause 12 with regard to the tests required.

This specification supersedes AS 3106—1974 from date of publication.

The Association desires to call attention to the fact that this specification does not purport to include all the necessary conditions of a contract.

This specification requires reference to the following Australian Standard Approval and Test Specifications:

AS 3121	Insulating Moulding
AS 3191	Electric Flexible Cords
AS ~~C100~~ 3100	Definitions and General Requirements for Electrical Materials and Equipment
AS C109	Appliance Plugs and Appliance Inlet-sockets

SEE AMENDMENT No. 1

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
Approval and Test Specification
for
ELECTRIC JUGS
(WITH NON-METALLIC BODIES)

AMENDMENT No. 1

This specification shall be read in conjunction with AS C100 (See also Clause 3, below.)

1 SCOPE. This specification applies to electric jugs, as defined in Clause 2 below, having non-metallic bodies and intended for electrical operation at low voltage.

The specification provides for three types of electric jug, as follows:

Type A—Electric jug having an open (bare) resistor-type element.

Type B—Electric jug having an electrode-type element.

Type C—Electric jug having a resistor-type element enclosed within a metal sheath with provision for earthing the sheath.

NOTES:

1. The use of electric jugs having electrode-type elements is prohibited in certain States and electricity supply areas.
2. An appliance in the form of a container incorporating a sheathed element with provision for earthing the sheath is within the scope of AS 3172, and not this specification (AS 3106), even though it may have a non-metallic body and, in shape, resemble a conventional jug.

2 DEFINITIONS

2.1 Electric Jug. For the purpose of this specification, the term 'electric jug' shall mean a jug or similar vessel having a body of non-metallic material and in which is incorporated a bare electric heating element, a sheathed resistor-type electric heating element with no provision for earthing the sheath, or electrodes.

3 COMPLIANCE WITH SPECIFICATIONS.

3.1 General Requirements of Specification C100. This specification shall be read in conjunction with AS ~~C100~~ C100, and the appropriate provisions of AS ~~C100~~ C100 shall apply to the construction of the appliance and the insulation and/or safeguarding of parts which normally carry current.

AMENDED No. 1