

Australian Standard™

**Laboratory glassware—Narrow-necked
boiling flasks**



This Australian Standard was prepared by Committee CH-001, Laboratory Glassware and Related Apparatus. It was approved on behalf of the Council of Standards Australia on 31 October 2001 and published on 4 January 2002.

The following interests are represented on Committee CH-001:

Australian Chamber of Commerce and Industry
National Association of Testing Authorities, Australia
National Standards Commission
The Royal Australian Chemical Institute
Royal College of Pathologists of Australasia
Science Industry Australia Inc
The University of New South Wales
The University of Sydney

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 Standards may also be withdrawn.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 Standards can be found by visiting the Standards Australia web site at www.standards.com.au and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Australian Standard*, has a full listing of revisions and amendments published each month.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.com.au, or write to the Chief Executive, Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001.

Australian Standard™

**Laboratory glassware—Narrow-necked
boiling flasks**

First published as AS 4715—2002.

COPYRIGHT

© Standards Australia International

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.

Published by Standards Australia International Ltd
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 4177 0

PREFACE

This Standard was prepared by the Standards Australia Committee CH-001, Laboratory Glassware and Related Apparatus. This Standard is identical with and has been reproduced from ISO 1773:1997, *Laboratory glassware—Narrow-necked boiling flasks*.

The objective of this Standard is to specify requirements and dimensions for an internationally acceptable series of conical flasks, flat-bottom and round-bottom flasks for general laboratory purposes.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text, 'this International Standard' should read 'this Australian Standard'.
- (c) A full point substitutes for a comma when referring to a decimal marker.
- (d) Substitute 'mL' for 'ml' wherever it appears.
- (e) The ISO document listed as a normative reference in Clause 2 has not been adopted as an Australian Standard.

CONTENTS

1	SCOPE.....	1
2	NORMATIVE REFERENCE.....	1
3	CONICAL FLASKS.....	1
4	FLAT-BOTTOM AND ROUND-BOTTOM FLASKS.....	3
5	MARKING.....	4
	ANNEX A BIBLIOGRAPHY.....	5

AUSTRALIAN STANDARD

Laboratory glassware - Narrow-necked boiling flasks

1 Scope

This International Standard specifies requirements and dimensions for an internationally acceptable series of conical flasks and of flat-bottom and round-bottom flasks for general laboratory purposes. The flasks are provided for

- direct use in a laboratory, fitting together with other equipment for general laboratory purposes;
- further work up to other products.

NOTE — Annex A lists additional International Standards for other general-purpose laboratory glassware.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3585:1991, *Borosilicate glass 3.3 — Properties*.

3 Conical flasks

3.1 Series of nominal capacity

The series of nominal capacities of conical flasks is as follows (given in millilitres):

25 - 50 - 100 - 250 - 500 - 1 000 - 2 000 - 3 000 - 5 000

3.2 Nominal capacity

The nominal capacity of a flask is the value, selected from the series given in 3.1, which is closest to but not larger than the actual volume to the base of neck.

NOTE — The body dimensions recommended in table 1 take this requirement into account, and as far as possible are in accordance with the current production of flasks.

3.3 Material

Flasks shall be made from borosilicate glass 3.3 in accordance with ISO 3585, and shall be free from visible defects and free from internal stress which would impair the performance of the flask.