

Australian Standard™

Laboratory glassware—Kjeldahl 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 14 October 2005.

This Standard was published on 28 October 2005.

The following are represented on Committee CH-001:

Australian Chamber of Commerce and Industry
National Association of Testing Authorities Australia
National Measurement Institute
Royal Australian Chemical Institute
Royal College of Pathologists of Australasia
Science Industry Australia
University of New South Wales
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 Standards may also be withdrawn.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 Web Shop 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 Global Standard*, has a full listing of revisions and amendments published each month.

Australian Standards™ and other products and services developed by Standards Australia are published and distributed under contract by SAI Global, which operates the Standards Web Shop.

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.org.au, or write to the Chief Executive, Standards Australia, GPO Box 476, Sydney, NSW 2001.

This Standard was issued in draft form for comment as DR 05085.

Australian Standard™

Laboratory glassware—Kjeldahl flasks

Original standard AS 2405—1981.
Second edition 2005.

COPYRIGHT

© Standards Australia

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, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 6963 2

PREFACE

This Standard was prepared by the Standards Australia Committee CH-001, Laboratory Glassware and Related Apparatus to supersede AS 2405—1981, *Laboratory glassware—Kjeldahl flasks*.

The objective of this Standard is to ensure that the requirements for Kjeldahl flasks generally used for digestion and distillation procedures in the determination of nitrogen are achieved.

The objective of this revision is to reconfirm the Standard with minor changes including the following:

- (a) Referenced documents have been updated.
- (b) The Standard has been brought into line with current editorial practices.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

CONTENTS

	<i>Page</i>
1 SCOPE.....	4
2 REFERENCED DOCUMENTS.....	4
3 DEFINITION.....	4
4 CAPACITIES OF FLASKS.....	4
5 MATERIAL.....	4
6 CONSTRUCTION.....	4
7 DIMENSIONS AND TOLERANCES.....	5
8 FLASKS WITH INTERCHANGEABLE CONICAL GLASS JOINTS.....	5
9 MARKING.....	5
APPENDIX A CARE IN THE USE OF KJELDAHL FLASKS.....	7

STANDARDS AUSTRALIA

Australian Standard
Laboratory glassware—Kjeldahl flasks**1 SCOPE**

This Standard specifies requirements for Kjeldahl flasks generally used for digestion and distillation procedures in the determination of nitrogen.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS	
2409	Interchangeable conical ground glass joints
ISO	
3585	Borosilicate glass 3.3—Properties

3 DEFINITION

For the purpose of this Standard, the definition below applies.

3.1 Nominal capacity

The value which is closest to, but not greater than, the actual capacity of the flask to the base of the neck.

4 CAPACITIES OF FLASKS

The nominal capacities of Kjeldahl flasks, in millilitres, shall be:

50, 100, 250, 500, 750, 1000.

5 MATERIAL**5.1 General**

Flasks shall be made of borosilicate glass 3.3 (ISO 3585). They shall be as free as possible from visible defects and internal stress.

NOTE: Directions for the care and use of Kjeldahl flasks are contained in Appendix A.

6 CONSTRUCTION**6.1 General**

Flasks shall conform to the appropriate general shape shown in Figure 1.

6.2 Bulb

The shape of the bulb shall be approximately as shown in Figure 1. The lower half shall be approximately hemispherical and the upper half shall have a gradual taper towards the neck.

6.3 Neck

The neck of the flask shall be substantially circular in cross-section. The top of the neck shall not be belled to any appreciable distance from the top of the flask and shall be finished with a strengthening rim.