

Australian Standard™

Laboratory glassware—Kjeldahl flasks



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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.

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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.