

R/T
Tubes

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**LABORATORY GLASSWARE
TEST TUBES**



STANDARDS ASSOCIATION OF AUSTRALIA

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 standard:

**Australian Medical Association
Chambers of Commerce (N.S.W., Vic.)
Chief Secretary's Department, Victoria
Commonwealth Serum Laboratories
Confederation of Australian Industry
Department of Agriculture, N.S.W.
Department of Science and the Environment
Government Chemical Laboratories, W.A.
National Measurement Laboratory
National Standards Commission
Railways of Australia Committee
Royal Australian Chemical Institute
University of Sydney
Victorian State Laboratories**

This standard, prepared by Committee CH/1, Laboratory Glassware and Related Apparatus, was approved by the Chemical Standards Board on behalf of the Council of the Standards Association of Australia on 26 March 1979, and was published on 1 July 1979.

In order to keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvement to published standards, addressed to the head office of the Association, are welcomed.

This standard was issued in draft form for public review as DR 7806⁵.

AUSTRALIAN STANDARD SPECIFICATION

TEST TUBES

AS 2244—1979

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PREFACE

This standard was prepared by the Association's Committee on Laboratory Glassware and Related Apparatus under the direction of the Chemical Standards Board in response to a request from the N.S.W. Government Stores Department.

Based on BS 3218:1960, Test Tubes and Boiling Tubes, it forms part of a series of standards for general laboratory glassware. Other items for which standards are being prepared are beakers, boiling flasks, filter flasks, conical flasks, filter funnels, condensers, separating and dropping funnels and conical glass joints.

This standard makes reference to the following standard:

AS Interchangeable Conical Glass Joints*

*In course of preparation.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard Specification for TEST TUBES

1 SCOPE. This specification sets out requirements for glass test tubes suitable for general laboratory use. Provision is also made for test tubes with interchangeable conical glass joints.

2 CAPACITIES. The nominal sizes of standard test tubes shall be as follows (length in millimetres \times external diameter in millimetres):

50 \times 6	100 \times 12	150 \times 13	175 \times 30
50 \times 7	100 \times 13	150 \times 16	200 \times 24
50 \times 10	100 \times 16	150 \times 19	200 \times 30
75 \times 10	125 \times 13	150 \times 22	200 \times 38
75 \times 12	125 \times 16	150 \times 24	
75 \times 13			

3 MATERIAL. The test tubes shall be made of clear soda glass or clear borosilicate glass. They shall be as free as possible from striae and other visible defects and shall be well annealed.

4 CONSTRUCTION.

4.1 Top of the Tube. The top of the test tube shall be smoothly finished at right-angles to the axis of the tube, either with a rim or with a plain fire-polished end.

4.2 Wall of the Tube. The wall of the test tube shall be straight and shall be of approximately uniform thickness over the length of the tube. For a test tube with a rim, the wall shall be slightly flared near the rim in a smooth and regular curve.

4.3 Base of the Tube. The base of each test tube shall be approximately hemispherical and shall blend smoothly with the cylindrical surface of the wall.

5 DIMENSIONS. The dimensions, tolerances on dimensions, and wall thickness ranges of test tubes shall be as shown in Table 1.