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AS 1679—1974

Australian Standard®

GLASS SYRINGES (LUER FITTING) FOR GENERAL MEDICAL USE

METRIC UNITS

The following scientific, industrial and governmental organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia
Australian Medical Association
Australian and State Departments of Health
Department of Defence
Federated Pharmaceutical Service Guild of Australia
Hospitals and Hospital Associations
Institute of British Surgical Technicians (Aust. Branch, N.S.W. Section)
N.S.W. Government Stores Department
Pharmaceutical Association of Australia
Repatriation Department

This standard, prepared by Committee MD/1, Hypodermic and Other Equipment for General Medical Use, was approved on behalf of the Council of the Standards Association of Australia on 19 February 1974.

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GLASS SYRINGES (LUER FITTING) FOR GENERAL MEDICAL USE

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PREFACE

This standard, prepared under the direction of the Medical Standards Committee, is a revision and metrication of AS T36—1967, All-Glass Syringes (Luer Fitting) for General Medical Use, which it accordingly supersedes. It is one of a series on syringes and needles being prepared by the Committee on Hypodermic Equipment for General Medical Use.

Other standards in the series are:

AS 1094 Single-Use Syringes (Sterile) for General Medical Use

AS 1600 Conical Fittings with 6 percent (Luer) Taper for Hypodermic and Other Surgical Equipment

AS T42* Re-usable Hypodermic Needles for General Medical Use

AS T48* Single-Use Hypodermic Needles (Sterile) for General Medical Use

This standard applies to glass syringes with the Luer (6 percent taper) conical fitting and ranging from 1 ml to 50 ml capacity.

Table 3, Test Requirements for Fit of Plunger in Barrel, contains an additional column incorporating the plunger movement test and indicates maximum pressures required to initiate plunger movement.

Sufficient technical information is still not available for developing a suitable method of test for ultrasonic cleaning of syringes. Mention is made, however, of certain requirements to which the syringe should conform if subjected to ultrasonic cleaning.

The opportunity was taken to specify reduced 'dead space' limits when metricating this standard.

This standard makes reference to the following Australian standards:

AS 1094 Single-Use Syringes (Sterile) for General Medical Use

AS 1600 Conical Fittings with 6 percent (Luer) Taper for Hypodermic and Other Surgical Equipment.

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* In course of metrication.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard Specification

for

GLASS SYRINGES (LUER FITTING) FOR GENERAL MEDICAL USE

1 SCOPE. This specification applies to glass syringes mounted with the Luer (6 percent taper) conical fitting and ranging from 1 ml to 50 ml capacity, for general use in medical practice.

2 DEFINITIONS. For the purpose of this specification the following definitions apply:

Glass syringe—a syringe having a barrel and plunger made entirely of glass with the nozzle either of glass or of metal.

Capacity—the volume of water at 20°C expelled from the syringe when the fiducial line on the plunger (see Clause 7.3.3) traverses the distance between the final graduation line and the zero graduation line.

Dead space—the space in the syringe between the distal end of the fully inserted plunger and the distal end of the bore of the conical tip.

3 MATERIALS.

3.1 General. The syringe shall either be made entirely of glass or consist of a glass plunger and barrel with a metal nozzle. The materials shall have good ageing characteristics.

3.2 Glass. The glass shall be well annealed and free from striae and similar defects. Soda glass shall not be used.

The glass of the barrel shall be clear when wet.

The quality of the glass shall be such as will enable the syringe to comply with the test requirements of Clause 10, Thermal Resistance.

3.3 Metal. The metals used in the fabrication of the syringe nozzle shall have such resistance to corrosion that the nozzle will show no signs of attack following subjection of the syringe to the test described in Appendix A.

Where the nozzle is made of a basis metal protected by an electrodeposited or other type of coating, the basis metal itself shall be capable of passing the test described in Appendix A.

4 RANGE OF SIZES. The size of the syringe shall be designated by its capacity (as defined in Clause 2) and shall be one of the following:

1 2 5 10 20 50 ml.

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