

Australian Standard<sup>®</sup>

**Medicine measures**

**Part 2: Plastic**



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 23 March 2009.

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The following are represented on Committee CH-001:

- National Association of Testing Authorities Australia
  - National Measurement Institute
  - Pharmaceutical Society of Australia NSW Branch
  - Royal College of Pathologists of Australasia
  - Science Industry Australia
  - The Pharmacy Guild of Australia, NSW Branch
  - The Royal Australian Chemical Institute
  - The University of New South Wales
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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## PREFACE

This Standard was prepared by the Standards Australia Committee CH-001, Laboratory Glassware and Related Apparatus, to supersede AS 2224.2—1986, *Medicine measures (including paediatric droppers)*, Part 2: *Plastics—For domestic use*.

The objective of this Standard is to ensure that the requirements for the four types of plastic medicine measures namely tumbler, conical measure, dropper and plunger are achieved.

This edition includes a plunger operated measure.

It is emphasized that the tests described in the Appendices were devised on the basis of their relationship to practical usage, and every effort has been made to avoid the inclusion of those tests or techniques that have little value or meaning to the user. In real life situations—

- (a) it is only the surface of the measure that comes into direct contact with its contents; and
- (b) the contents are in contact with the measure for perhaps only a few minutes at a time or, in extreme cases, for up to 8 h or 12 h overnight in a hospital.

An acceptable test needs to recognize of such practical situations and indeed this was the philosophy of the drafting committee throughout the production of this Standard.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

## CONTENTS

|                                 | <i>Page</i> |
|---------------------------------|-------------|
| 1 SCOPE.....                    | 4           |
| 2 REFERENCED DOCUMENTS.....     | 4           |
| 3 DEFINITIONS.....              | 4           |
| 4 MATERIALS.....                | 5           |
| 5 DESIGN.....                   | 5           |
| 6 DIMENSIONS.....               | 5           |
| 7 CONSTRUCTION.....             | 7           |
| 8 MARKINGS.....                 | 8           |
| 9 PERFORMANCE REQUIREMENTS..... | 9           |

## APPENDICES

|  |    |
|--|----|
| A METHOD FOR DETERMINING RESISTANCE OF A PLASTIC MEDICINE<br>MEASURE TO MECHANICAL SHOCK.....            | 12 |
| B DETERMINATION OF RESISTANCE TO LEACHING.....   | 15 |
| C ACCURACY OF CALIBRATION.....   | 17 |
| D RESISTANCE TO DETERIORATION BY HEAT AND DETERGENT UNDER<br>WASHING CONDITIONS.....                     | 19 |
| E METHOD FOR ASSESSING RESISTANCE TO DEGRADATION OF PLASTIC<br>MATERIAL, AND PERMANENCE OF MARKINGS..... | 20 |

# STANDARDS AUSTRALIA

## Australian Standard Medicine measures

### Part 2: Plastic

#### 1 SCOPE

This Standard specifies requirements for four types of plastic medicine measures, namely, tumblers, conical measures, droppers and plunger operating measures.

#### 2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

2070 Plastics materials for food contact use

AS/NZS

2243 Safety in laboratories

2243.1 Part 1: Planning and operational aspects

2243.2 Part 2: Chemical aspects

2007 Performance of household electrical appliances—Dishwashers

2007.1 Part 1: Methods for measuring performance, energy and water consumption

#### 3 DEFINITIONS

For the purpose of this Standard, the following definitions apply:

##### 3.1 Capacity at any graduation line

The volume of distilled water at 20°C, expressed in millilitres, contained by the measure at 20°C, when filled to the graduation line under test.

NOTE: The determination of the capacity of a measure and dropper is described in Appendix C.

##### 3.2 Measure

Refers to the four types of containers specified in the Scope.

##### 3.3 Permanently marked

Markings that endure for the life of the measure when it is used in measuring medicines as well as in associated cleaning processes.

NOTES:

1 Such markings may be applied by any suitable process, e.g. moulding, chemical adhesion.

2 The method for assessing the permanence of markings is described in Appendix E.

##### 3.4 Plunger operating measure

A device intended solely for the administration of oral liquid medicines.

NOTE: Hypodermic syringe barrels are unsuitable for these purposes and are outside the scope of this Standard.