

Australian Standard™

Potting mixes

This Australian Standard was prepared by Committee CS-037, Garden Soils and Potting Mixes. It was approved on behalf of the Council of Standards Australia on 4 August 2003 and published on 5 September 2003.

The following are represented on Committee CS-037:

Agriculture Victoria
Australian Institute of Horticulture
Australian Society of Soil Science Incorporated
Certification Bodies (Australia)
NSW Agriculture
NSW Department of Public Works and Services
Nursery & Garden Industry Australia
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Potting mixes

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PREFACE

This Standard was prepared by the Standards Australia Committee CS-037, Garden Soils and Potting Mixes to supersede AS 3743—1996, *Potting mixes*. The Standard was originally requested by the Australian Institute of Horticulture and the Division of Soils, CSIRO.

This edition incorporates AS 3743—1996 Amendment 1—1998. Other changes comprise refinements which take into account results of further experience in the determination of air filled porosity (Appendices B and H) nutrients (Appendices D and G) and the toxicity test (Appendix F). Marking has changed to include bold line bordering around the health warnings for prominence on the bag.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

CONTENTS

| | <i>Page</i> |
|---|-------------|
| FOREWORD..... | 4 |
| SECTION 1 SCOPE AND GENERAL | |
| 1.1 SCOPE..... | 5 |
| 1.2 OBJECTIVE..... | 5 |
| 1.3 APPLICATION | 5 |
| 1.4 REFERENCED DOCUMENTS..... | 5 |
| 1.5 DEFINITIONS..... | 6 |
| 1.6 NOTATION..... | 6 |
| 1.7 CLASSIFICATION | 6 |
| SECTION 2 GENERAL REQUIREMENTS | |
| 2.1 COMPOSITION | 8 |
| 2.2 PHYSICAL AND CHEMICAL REQUIREMENTS | 8 |
| 2.3 STORAGE BEFORE TESTING..... | 8 |
| 2.4 PACKAGING..... | 8 |
| 2.5 MARKING | 8 |
| APPENDICES | |
| A METHOD FOR THE MEASUREMENT OF VOLUME | 14 |
| B METHOD FOR THE MEASUREMENT OF AIR-FILLED POROSITY AND TOTAL WATER HOLDING CAPACITY | 15 |
| C METHOD FOR THE DETERMINATION OF WETTABILITY | 19 |
| D METHODS FOR THE DETERMINATION OF pH, ELECTRICAL CONDUCTIVITY, AMMONIUM, MANGANESE NITRATE, CHLORIDE AND OTHER NUTRIENTS | 21 |
| E METHOD FOR THE DETERMINATION OF NITROGEN DRAWDOWN INDEX..... | 24 |
| F METHOD FOR THE DETERMINATION OF TOXICITY TO PLANTS..... | 28 |
| G METHOD FOR THE DETERMINATION OF NUTRIENT LEVELS | 30 |
| H ALTERNATIVE METHOD FOR AIR-FILLED POROSITY AND TOTAL WATER HOLDING CAPACITY | 34 |
| I MEANS OF DEMONSTRATING COMPLIANCE WITH THIS STANDARD | 38 |

FOREWORD

Long-term storage of potting mix, especially in warm, moist environments, can lead to depletion of the available nitrogen content of the mix. The concentration of nitrogen that is available to plants at potting will be decreased from what it was at manufacture. Marking requirements and the note in Clause 2.5.1(c) relate to this problem. A 'best-before' date was discussed by the Committee, but was not considered to be the total answer, as retailers would not necessarily see any advantage in rotating mixes in the store, nor consumers any problem in using a mix after the date. Consumers do not generally understand this situation and would need to be educated to understand the fact that fertilizer may need to be added even to a premium mix that has been stored for some time.

In view of this, and in order to increase the likelihood that plants will still have sufficient nutrients to produce plant growth for at least the short term after sale of the potting mix, it is suggested that potting mix ingredients should have an NDI (see Appendix E) of at least 0.6 at the time of their incorporation into a standard potting mix.

STANDARDS AUSTRALIA

Australian Standard Potting mixes

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies physical, chemical, biological and labelling requirements for potting mixes packaged for retail sale. Potting mixes of both regular and premium quality are covered. Requirements are also included for mixes labelled as suitable for African violets, bulbs, hanging baskets, seedlings, orchids, acid-loving plants and plants that are sensitive to phosphorus.

Test methods for the analysis of potting mixes are set out in Appendices A to H.

NOTE: Appendix I gives guidance on the determination of compliance with this Standard.

1.2 OBJECTIVE

The objective of this Standard is to provide manufacturers, educational institutions, consumers and growers with a set of requirements which will ensure that potting mixes can germinate seeds, grow seedlings, strike cuttings and maintain plant growth.

1.3 APPLICATION

All potting mixes shall comply with Section 2 of this Standard and specifically with the applicable requirements in Table 2.1. Requirements shown in the table apply at the time of testing.

1.4 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

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| 1199 | Sampling procedures and tables for inspection by attributes |
| 1199.0 | Part 0: Introduction to the ISO 2859 attribute sampling system |
| 1199.1 | Part 1: Sampling schemes indexed by acceptance quality limit (AGL) for lot-by-lot inspection |

AS/NZS

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| 1336 | Recommended practices for occupational eye protection |
| 1715 | Selection, use and maintenance of respiratory protective devices |
| 1716 | Respiratory protective devices |
| 2161 | Occupational protective gloves |
| 2161.2 | Part 2: General requirements |
| ISO 9001 | Quality management systems—Requirements |
| ISO 9004 | Quality management systems—Guidelines for performance improvements |
| HB 18 | Guidelines for third-party certification and accreditation |
| HB 18.28 | Guide 28—General rules for a model third-party certification system for products |