AS 1963—1977

Australian Standard®

DENTAL IMPRESSION PASTE

The Dental Materials Committee of the Australian Dental Association has adopted this standard for use in connection with its programme for accreditation of certified dental products, lists of which are published periodically. Enquiries regarding this programme should be addressed direct to the Australian Dental Association. When used in connection with the programme, the standard is known as Australian Dental Standard 1963 (ADS 1963).

[Title allocated by Defence Cataloguing Authority:
IMPRESSION MATERIAL, DENTAL, paste]

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

Australian Dental Association
Australian Dental Hospitals and Schools
Australian Dental Standards Laboratory
Australian Dental Trade Association
Department of Defence
Victorian Chamber of Manufactures

This standard, prepared by Committee DN/2, Impression Materials, was approved on behalf of the Council of the Standards Association of Australia on 3 August 1976, and was published on 1 February 1977.

Review of Australian Standards. *To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.*

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

PREFACE

This standard was prepared under the authority of the Dental Materials and Equipment Standards Committee as a metrication and revision of AS T18-1961, which it accordingly supersedes. It is one of a series intended for use in assessing the quality of dental materials used in Australia. The standard is based on the work of the Australian Dental Standards Laboratory and others.

In particular, this standard applies to zinc oxide-eugenol type materials and zinc oxide with other alternative reactants which produce a material suitable for taking impressions in the mouth.

The standard was first published in 1961 and the revision was undertaken primarily to carry out the necessary metrication. Requirements on the ability to record surface detail have been introduced and the information to be supplied by the manufacturer has been made more explicit.

Attention is drawn to the fact that facilities for testing materials for compliance with this Standard are available at the Australian Dental Standards Laboratory, 18 Lonsdale Street, Melbourne, Vic. 3000.

This standard requires reference to the following standards:

AS 1616 Dental Artificial Stone
AS 1959 Dental Die Stone
AS B128 Methods for the Verification of Testing Machines.

First published (as AS T18) 1961
Revised 1971
Revised and issued as AS 1963 1977

© Copyright – STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

ISBN 0 7262 1084 6

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard Specification

for

DENTAL IMPRESSION PASTE

1 SCOPE. This specification applies to impression paste which is formed by mixing two component pastes one of which consists primarily of zinc oxide and the other of eugenol or other suitable reactants, such paste being intended for use in dentistry for taking impressions in the mouth.

2 SAMPLING. An unopened impression paste kit containing sufficient material when mixed in accordance with the manufacturer's instructions to produce at least 125 g of impression paste shall be taken at random from each batch.

3 PROPERTIES OF COMPONENT PASTES. The components shall be supplied in tubes and each shall be capable of being extruded without difficulty at a temperature of 15°C.

The component pastes shall be homogeneous, free from granularity and foreign materials, and shall be of contrasting colours. They shall not contain poisonous ingredients in sufficient concentration to cause a toxic reaction when used in accordance with the manufacturer's instructions.

4 PROPERTIES OF MIXED MATERIAL. When prepared in accordance with the manufacturer's instructions, the components shall mix readily and form a uniform paste which shall have an acceptable odour and flavour, and shall not produce an excessive burning sensation when brought into contact with the oral tissues.

5 TEST CONDITIONS AND PREPARATION OF MATERIAL FOR TESTING. Unless otherwise specified, all tests shall be carried out on *impression paste* mixed under the ambient conditions and in the manner described in Appendix A.

6 CONSISTENCY. When determined by the method described in Appendix B, the consistency of the impression paste shall be such that the diameter of the disc formed is not less than 30 mm and not more than 50 mm.

7 SETTING TIME. When determined by the method described in Appendix C, the setting time of the impression paste shall be not less than 3 min and not more than 6 min.

Ten minutes after setting, the *impression paste* shall not be tacky to the touch and shall not be friable.