



American National Standard/  
American Dental Association  
Specification No. 19

# Dental Elastomeric Impression Materials

Identical Adoption of ISO 4823: 2000



American Dental Association  
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**PROPOSED AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION  
SPECIFICATION NO. 19 FOR DENTAL ELASTOMERIC IMPRESSION MATERIALS**

**FOREWORD**

(This Foreword does not form a part of the Revised ANSI/ADA Specification No. 19 for Dental Elastomeric Impression Materials).

This revision is an identical adoption of ISO 4823:2000, Dentistry – Elastomeric Impression Materials. The ADA SCDP Working Group examined the standard and found it acceptable for adoption as a revision of ANSI/ADA Specification No. 19.

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## 1 Scope

This specification specifies requirements and tests for evaluating elastomeric dental impression materials.

## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this specification. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this specification are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid specifications.

ISO 1942, *Dental vocabulary*.

ISO 6873, *Dental gypsum products*.

## 3 Terms and definitions

For the purposes of this specification, the terms and definitions given in ISO 1942 and the following apply.

### 3.1 consistency

degree of firmness with which particles of a material, prepared for use, cohere so as to allow the material to flow, or resist flow, as required to achieve the purpose for which it is intended

### 3.2 elastic recovery test

compression set (deprecated)

permanent deformation (deprecated)

recovery from deformation (deprecated)

(elastic impression materials) method of determining whether the materials possess the elastic properties required to recover adequately after deformation occurring when the materials, used for forming impressions, are removed from the mouth

### 3.3 extrusion mixing

method by which two or more material components are extruded from their separate immediate containers through a special mixing tip, from which the components emerge as a homogeneous mixture

### 3.4 hand mixing

method of mixing the components of a material by means of manual kneading or spatulation