



Revised American National Standard/  
American Dental Association  
**Standard No. 30**

# Dental Zinc Oxide/Eugenol & Zinc Oxide/Non-Eugenol Cements

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Identical adoption of ISO 3107:2011, *Dentistry — Zinc oxide/eugenol cements and zinc oxide/non-eugenol cements*

**ADA** American  
Dental  
Association®  
Council on  
Scientific Affairs

**REVISED AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION STANDARD  
NO. 30 FOR DENTAL ZINC OXIDE/EUGENOL AND ZINC OXIDE/NON-EUGENOL CEMENTS**

The Council on Scientific Affairs of the American Dental Association has approved revised American Dental Association Standard No. 30 for Dental Zinc Oxide/Eugenol and Zinc Oxide/Non-Eugenol Cements. This and other standards for dental materials, instruments and equipment are being formulated by working groups of the ADA Standards Committee on Dental Products (formerly Accredited Standards Committee MD156 for Dental Materials, Instruments and Equipment). The Committee has representation from all interests in the United States in the standardization of materials, instruments and equipment in dentistry. The Council has adopted the standards, showing professional recognition of their usefulness in dentistry, and has forwarded them to the American National Standards Institute with a recommendation that the standards be approved as American National Standards. The American National Standards Institute granted approval of revised ADA Standard No. 30 as an American National Standard on February 5, 2013.

The ADA Standards Committee on Dental Products thanks the members of Working Group 1.9 and the organizations with which they were affiliated at the time the standard was developed:

John Powers (chairman), Dental Consultants, Inc., Ann Arbor, MI;

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**FOREWORD**

(This Foreword does not form a part of Revised ANSI/ADA Standard No. 30 for Dental Zinc Oxide/ Eugenol and Zinc Oxide/Non-Eugenol Cements).

This revised standard is an identical adoption of ISO 3107:2011, Dentistry – Zinc oxide/eugenol cements and zinc oxide/non-eugenol cements. ADA SCDP Working Group No. 1.9 on ZOE Cements examined the International Standard and found it acceptable as an identical adoption for Revised ANSI/ADA Standard No. 30. This standard cancels and replaces ANSI/ADA Standard No. 30 – 2000, which was a modified adoption of ISO 3107:1988, Zinc oxide/eugenol cements and zinc oxide/non-eugenol cements.

Specific qualitative and quantitative requirements for freedom from biological hazard are not included in this standard, but it is intended that in assessing possible biological or toxicological hazards, reference be made to ANSI/ADA Standard No. 41, ISO 10993-1 and ISO 7405.

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### 1 SCOPE

This standard specifies requirements for non-water-based zinc oxide/eugenol cements suitable for use in restorative dentistry for temporary cementation, for bases and as temporary restorations.

This standard also specifies requirements for non-eugenol cements containing zinc oxide and aromatic oils suitable for temporary cementation.

### 2 NORMATIVE REFERENCES

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1942, *Dentistry — Vocabulary*

ISO 2590, *General method for the determination of arsenic — Silver diethyldithiocarbamate photometric method*

ISO 3696, *Water for analytical laboratory use — Standard and test methods*

ISO 8601, *Data elements and interchange formats — Information interchange — Representation of dates and times*

(ISO standards for dentistry are available from the American Dental Association, Department of Standards, 211 E. Chicago Ave., Chicago, IL 60611 or <http://catalog.ada.org>. ISO standards are available from the American National Standards Institute, 25 W. 43rd St., New York, NY 10036 or [www.ansi.org](http://www.ansi.org)).

### 3 TERMS AND DEFINITIONS

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

### 4 CLASSIFICATION

For the purposes of this Standard, the following classification for cements is used, based on their intended use:

- A Type I: for temporary cementation;
- B Type II: for bases and temporary restorations.

### 5 REQUIREMENTS

#### 5.1 Performance requirements

When tested in accordance with the appropriate test methods specified in Clause 7, type I and type II cements shall comply with the performance requirements specified in Table 1.