



Revised American National Standard/
American Dental Association

Standard No. 69

Dental Ceramic

Identical adoption of ISO 6872:2015, *Dentistry– Ceramic materials*

ADA American
Dental
Association®

Standards Committee on Dental Products

2017

**REVISED AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION
STANDARD NO. 69 FOR DENTAL CERAMIC**

The ADA Standards Committee on Dental Products (SCDP) has approved Revised ANSI/ADA Standard No. 69 for Dental Ceramic. This and other standards for dental materials, instruments and equipment are being formulated by working groups of the ADA SCDP. The Committee has representation from all interests in the United States in the standardization of materials, instruments and equipment in dentistry. The Committee 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 ADA Standard No. 69 as an American National Standard on December 21, 2017.

The ADA Standards Committee on Dental Products thanks the members of Working Group 2.20 Porcelain and Metal-Ceramic Systems and the organizations with which they were affiliated at the time the specification was developed:

Russell Giordano (chairman), Boston University Goldman School of Dental Medicine, Marlborough, MA;

Joel Anderson, Food and Drug Administration, Silver Spring, MD;

Christopher Chu, Dentsply Ceramco, York, PA;

Claudia Cotca, Washington Institute for Dentistry & Laser Surgery, Chevy Chase, MD;

Lawrence Gettleman, University of Louisville School of Dentistry, Louisville, KY;

J. R. Kelly, University of Connecticut, Farmington, CT;

Spiro Megremis, American Dental Association, Chicago, IL;

Jeffrey Platt, Indiana University, Indianapolis, IN; and

Andrew Steen, Food & Drug Administration, Silver Spring, MD.

REVISED AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION STANDARD NO. 69 FOR DENTAL CERAMIC**FOREWORD**

(This Foreword does not form a part of Revised ANSI/ADA Standard No. 69 for Dental Ceramic).

This standard is an identical adoption of ISO 6872:2015, Dentistry – Ceramic materials. ADA SCDP Working Group No. 2.20 on Porcelain and Metal-ceramic Systems examined the international standard and found it acceptable for identical adoption as revised ANSI/ADA Standard No. 69.

The proposed revision of ANSI/ADA Standard No. 69 for Dental Ceramic cancels and replaces ANSI/ADA Standard No. 69:2010 (R2015), which was an identical adoption of ISO 6872:2008.

**REVISED AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION STANDARD NO. 69
FOR DENTAL CERAMIC****INTRODUCTION**

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

REVISED AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION STANDARD NO. 69 FOR DENTAL CERAMIC

1 Scope

This Standard specifies the requirements and the corresponding test methods for dental ceramic materials for fixed all-ceramic and metal-ceramic restorations and prostheses.

2 Normative references

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

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

ISO 1942, *Dentistry — Vocabulary*

ISO 13078, *Dentistry — Dental furnace — Test method for temperature measurement with separate thermocouple*

ISO 7500-1 *Metallic materials – Calibration and verification of static uniaxial testing machines – Part 1: Tension/compression testing machines – Calibration and verification*

(ISO standards are available from the American National Standards Institute, 25 W. 43rd St., New York, NY 10036 or www.ansi.org).

3 Terms and definitions

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

3.1 Material

3.1.1

addition ceramic

add-on ceramic

correction ceramic

dental ceramic material which is fired at a reduced temperature and is normally applied to restore contact areas on a dental restoration or prosthesis

3.1.2

aesthetic ceramic

dental porcelain (3.1.5) or *glass ceramic* (3.1.10) having appropriate translucency and color used to mimic the optical properties of natural teeth

3.1.3

chromatic dentin ceramic

dentine ceramic having a high strength or saturation of the hue (color)

3.1.4

dental ceramic

inorganic, non-metallic material that is specifically formulated for use when processed according to the manufacturers' instructions to form the whole or part of a dental restoration or prosthesis