



American National Standard/American Dental Association
Specification No. 15

Artificial Teeth for Dental Prostheses

Identical adoption of ISO 22112:2005, *Dentistry – Artificial teeth for dental prostheses*.

ADA American
Dental
Association®
Council on
Scientific Affairs

**AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION SPECIFICATION NO. 15
FOR ARTIFICIAL TEETH FOR DENTAL PROSTHESES**

The Council on Scientific Affairs of the American Dental Association has approved American Dental Association Specification No. 15 for Artificial Teeth for Dental Prostheses. This and other specifications 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 specifications, showing professional recognition of their usefulness in dentistry, and has forwarded them to the American National Standards Institute with a recommendation that the specifications be approved as American National Standards. The American National Standards Institute granted approval of ADA Specification No. 15 as an American National Standard on November 21, 2008.

The Council thanks the working group members and the organizations with which they were affiliated at the time the specification was developed:

P.L.Fan (chairman), American Dental Association, Chicago, IL;
Clyde Ingersoll, CEI Enterprises, Ltd., Tonawanda, NY; and
Michael Ryan, Food and Drug Administration, Rockville, MD.

**AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION SPECIFICATION NO. 15 FOR ARTIFICIAL
TEETH FOR DENTAL PROSTHESES****FOREWORD**

(This Foreword does not form a part of ANSI/ADA Specification No. 15 for Artificial Teeth for Dental Prostheses).

This specification is an identical adoption of ISO 22112:2005, Dentistry – Artificial teeth for dental prostheses. ADA SCDP Working Group No. 2.11 on Artificial Teeth, Crown and Bridge Resin examined the international standard and found it acceptable for identical adoption as revised ANSI/ADA Specification No. 15.

Additional note to the Foreword for this Reaffirmation:

In 2012, the ADA Standards Committee on Dental Products approved a change in the terminology used for standards. ADA standards will no longer utilize the term Specification; standards will now be named as ADA Standards.

With this notice, this ADA Specification is now termed an ADA Standard. Where the term "specification" is used, it should be considered as "standard." It will be re-named as an ADA Standard in its next revision.

AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION SPECIFICATION NO. 15 FOR ARTIFICIAL TEETH FOR DENTAL PROSTHESES

1 SCOPE

This specification defines the classification, requirements, and test methods for synthetic polymer and ceramic teeth that are manufactured for use in prostheses used in dentistry.

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 483, *Plastics — Small enclosures for conditioning and testing using aqueous solutions to maintain the humidity at a constant value*

ISO 1567:1999, *Dentistry — Denture base polymers*

ISO 1942, *Dentistry — Vocabulary*

ISO 3950:1984, *Dentistry — Designation system for teeth and areas of the oral cavity*

ISO 6873:1998, *Dental gypsum products*

ISO 7491:2000, *Dental materials — Determination of color stability*

(ISO standards for dentistry are available from the American Dental Association, Department of Standards, 211 E. Chicago Ave., Chicago, IL 60611 or www.adacatalog.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 **Diatoric teeth** – teeth designed to be retained by anchorage slots and/or holes.

3.2 **Pin teeth** – teeth designed to be retained by headed pins.

3.3 **Set** – set of six anterior teeth or eight posterior teeth, as received from the manufacturer.

3.4 **Half-set** – three teeth on one side of a set of anterior teeth or four teeth on one side of a set of posterior teeth.

3.5 **Mold chart** – chart representing the form, shape and dimensions of all individual teeth of a set.

4 CLASSIFICATION

Artificial teeth are grouped in accordance with the following classification:

Type 1: Anterior teeth;

Type 2: Posterior teeth.

5 REQUIREMENTS

5.1 General

5.1.1 Biocompatibility

Specific qualitative and quantitative requirements for freedom from biological hazard are not included in this specification, but shall conform to ISO 10933-1 and ISO 7405 in assessing possible biological or toxicological