



American National Standard/American Dental Association  
**Standard No. 122**

# Dental Casting and Baseplate Waxes

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Identical adoption of ISO 15854:2005, *Dentistry – Casting and baseplate waxes.*

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



**AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION SPECIFICATION NO. 122  
FOR DENTAL CASTING AND BASEPLATE WAXES**

The Council on Scientific Affairs of the American Dental Association has approved American Dental Association Standard No. 122 for Dental Casting and Baseplate Waxes. 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 Standard No. 122 as an American National Standard on June 27, 2007.

The Council thanks the working group members and the organizations with which they were affiliated at the time the standard was developed: John Powers (chairman), Dental Consultants, Inc., Ann Arbor, MI; Lonnie Graybill, Miltex Instrument Co., York, PA; and Atul C. Sarma, Whip-Mix Corp., Louisville, KY.

**AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION SPECIFICATION NO. 122 FOR DENTAL CASTING AND BASEPLATE WAXES****FOREWORD**

(This Foreword does not form a part of the Proposed ANSI/ADA Standard No. 122 for Dental Casting and Baseplate Waxes).

This standard is an identical adoption of ISO 15854:2005, Dentistry – Casting and baseplate waxes. The ADA SCDP working group examined the international standard and found it acceptable for adoption as ANSI/ADA Standard No. 122.

ANSI/ADA Standard No. 122 for Dental Casting and Baseplate Waxes replaces ANSI/ADA Standard No. 4 for Dental Inlay Casting Wax, 1983 (reaffirmed 2003); and ANSI/ADA Standard No. 24 for Dental Baseplate Wax, 1991 (reaffirmed 2003).

This standard does not include specific and quantitative requirements for freedom from biological hazards. It is recommended that, in assessing possible biological or toxicological hazards, reference be made to ISO 7405 and ISO 10993-1 (see Bibliography).

## AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION SPECIFICATION NO. 122 FOR DENTAL CASTING AND BASEPLATE WAXES

### 1 SCOPE

This Specification is applicable to dental casting wax and to dental baseplate wax. It specifies the classification of, and requirements for, dental casting wax and baseplate wax together with the test methods to be employed to determine compliance with these requirements.

### 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 1942-2, *Dental vocabulary — Part 2: Dental materials*;

ISO 22112, *Dentistry — Artificial teeth for dental prostheses*;

ISO 6873, *Dental gypsum products*;

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

(ISO dentistry standards may be purchased from the American Dental Association, Dept. of Standards Administration, 211 E. Chicago Ave., Chicago, IL 60611. Other ISO standards may be purchased from the American National Standards Institute, 25 W. 43<sup>rd</sup> St., New York, NY 10036).

### 3 TERMS AND DEFINITIONS

For the purposes of this document, the terms and definitions given in ISO 1942-2 and the following apply.

3.1 casting wax – moldable material primarily for shaping patterns in the production of fixed cast restorations using the “lost-wax” procedure.

3.2.1 baseplate wax – moldable material primarily for shaping patterns that will be duplicated in denture base polymers, and for forming occlusion rims and other patterns.

### 4 CLASSIFICATION

Dental waxes covered by this Specification are classified according to the flow characteristics that represent their hardness, as follows:

A Type 1 (casting wax):

1. Class 1: Soft

2. Class 2: Hard

B Type 2 (baseplate wax):

1. Class 1: Soft

2. Class 2: Hard

3. Class 3: Extra hard

### 5 REQUIREMENTS