



American National Standard/
American Dental Association
Specification No. 20

Dental Duplicating Material

This is a preview of "ANSI/ADA Specificati...". [Click here to purchase the full version from the ANSI store.](#)

ANSI/ADA Specification No. 20 — 1972
Reaffirmed: 1995

1

AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION SPECIFICATION NO. 20 FOR DENTAL DUPLICATING MATERIAL

The Council on Scientific Affairs of the American Dental Association has approved revised American Dental Association Specification No. 20 for Dental Duplicating Material. 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. 20 as an American National Standard in 1972. It was reaffirmed by ANSI in 1995.

**AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION SPECIFICATION NO. 20 FOR
DENTAL DUPLICATING MATERIAL**

1 SCOPE AND CLASSIFICATION

1.1 Scope

This specification covers thermo-reversible and nonreversible (chemical setting) duplicating materials for use in the dental laboratory.

1.2 Types

Duplicating materials covered by this specification shall be of the following types and classes:

- a) Type I. Thermo-reversible materials
 - Class 1. Hydrocolloidal
 - Class 2. Nonaqueous organic thermoplastic

- b) Type II. Nonreversible (chemical setting)
 - Class 1. Hydrocolloidal
 - Class 2. Nonaqueous organic

2 APPLICABLE SPECIFICATIONS

2.1 Specifications

Rubber; Carbon Black; Gaskets (Part 28), ASTM Standard 1964, American Society for Testing and Materials, Philadelphia, 1964, p. 363 shall apply to the test for resistance to tearing (4.3.10). (Copies of ANSI/ADA specifications may be obtained upon application to the American Dental Association, 211 East Chicago Avenue, Chicago, IL 60611).

3 REQUIREMENTS

3.1 Material

The material shall be free of foreign materials and impurities. When used as directed by the manufacturer's instructions accompanying the package, the material shall be suitable for taking impressions of plaster, stone or investment casts of the oral tissues.

3.2 Physical Properties

3.2.1 Pouring Temperature - Type I

The material, prepared according to the manufacturer's instructions, shall be fluid and pourable at a temperature not more than 99°C when tested as described in 4.3.3.