



American National Standard/American Dental Association
Specification No. 43

Electrically Powered Dental Amalgamators

ADA American
Dental
Association®
Council on
Scientific Affairs

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AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION SPECIFICATION NO. 43 FOR ELECTRICALLY POWERED DENTAL AMALGAMATORS

American National Standard/American Dental Association Specification No. 43 for Electrically Powered Dental Amalgamators has been approved by the ADA Council on Scientific Affairs. This and other specifications for dental materials, instruments, and equipment are being formulated by 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. Approval of ADA Specification No. 43 as an American National Standard was granted by the American National Standards Institute on Feb 20, 1986.

The Council thanks the subcommittee members and organization with which they were affiliated at the time the specification was formulated: Nelson W. Rupp (chairman), Paffenbarger Research Center, National Bureau of Standards, Gaithersburg, MD; A. Bruce Ady, Jeneric Industries, Wallingford, CT; William Brantley, Marquette University, Milwaukee; Toru Okabe, Baylor College, Dallas; Malcolm D. Jendresen, University of California, San Francisco; Arthur P. Burnett, Dentsply International, York, PA; Eugene Lautenschlager, Northwestern University, Chicago; David B. Mahler, University of Oregon, Portland, OR; Miroslav Marek, Georgia Institute of Technology, Atlanta; and D. Timothy Work, Goldsmith & Revere Inc, Englewood, NJ.

This specification is for electrically powered amalgamators used for the mixing of alloy and mercury to make dental amalgams. It includes multipurpose devices but is restricted to the function of triturating alloy and mercury to produce dental amalgam.

The specification is designed to ensure the proper mixing of alloy and mercury to produce an acceptable dental amalgam; to provide protection for the operator from mechanical or electrical accidents (or both); and to ensure acceptable durability of the amalgamator. Control of the mixing of the alloy and mercury is restricted to defining the speed of the amalgamator when it is appropriately loaded with capsule (pestle if required), mercury, and alloy, and the accuracy of the timing device.