



American National Standard/American Dental Association
Specification No. 74

Dental Operator's Stool

Modified adoption of ISO 7493:2006, *Dentistry-Operator's stool*.

ADA American
Dental
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Council on
Scientific Affairs

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AMERICAN NATIONAL STANDARD/AMERICAN DENTAL ASSOCIATION SPECIFICATION NO. 74 FOR DENTAL OPERATOR'S STOOL

The Council on Scientific Affairs of the American Dental Association has approved American Dental Association Specification No. 74 for Dental Operator's Stool. 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. 74 as an American National Standard on January 13, 2010.

The Council thanks the members of Working Group 6.35 and the organizations with which they were affiliated at the time the specification was developed:

Lon Warren (chairman), USAF Dental Evaluation and Consultation Service, Great Lakes, IL;

Tim Forlow, Midmark Corporation, Versailles, OH;

Richard Mitchell, University of Kentucky, Lexington; and

Jeff Zawada, A-Dec, Inc., Newberg, OR.

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FOREWORD

(This foreword is not part of ANSI/ADA Specification No. 74 for Dental Operator's Stool).

This revised specification cancels and replaces ANSI/ADA Specification No. 74-2002.

This revised specification is a modified adoption of ISO 7493:2006, Dentistry – Operator's stool. ADA SCDP Working Group 6.35 examined the ISO standard and found it acceptable for adoption as revised ANSI/ADA Specification No. 74, with the following modifications.

A **Changed: 4.13**

"The upper part of the operator's stool shall not be removable from the base without the use of a tool," was changed to, "The upper part of the operator stool (seat and center post) shall remain attached to the base when lifted from the floor by the seat of the operator's stool."

Rationale: Most seat assemblies in operator's stools utilize a friction fit that does not require fasteners or tools.

B **Changed: 6.7 Armrest and torso support**

"...and subsequently a horizontal force of 220 N at the points along the armrest or torso support most likely to cause failure for the outward and inward directions respectively (Reference Points F and G in Figure 1)." was changed to "...and subsequently a horizontal force of 220 N at the points along the armrest or torso support most likely to cause failure in an outward direction (Reference Point F in Figure 1)."

Reference Point G in Figure 1 was eliminated.

Rationale: The operator applies only outward force on the armrest/torso support; inward forces on the armrest/torso support are very unlikely to occur in the clinical setting. There is only value in testing the force applied at "Reference Point F."

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1 SCOPE

This specification sets forth requirements, recommendations and test methods for the operator's stool in the dental office as well as requirements for the manufacturer's instructions for use and for marking and packaging. It also covers recommendations to manufacturers on the design of operator's stools.

For purposes of this specification, the term "dental operator" includes dentists, dental assistants and dental hygienists.

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 1942:2009, *Dentistry — Vocabulary*

ISO 8191-1, *Furniture — Assessment of the ignitability of upholstered furniture — Part 1: Ignition source: smouldering cigarette*

ISO 9687, *Dental equipment — Graphical symbols*

ISO 21530, *Dentistry — Materials used for dental equipment surfaces — Determination of resistance to chemical disinfectants*

(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. Other 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

3.1 Terms and definitions

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

3.1.1 **Operator's stool** – movable seat, adjustable in height, which satisfies the general requirements relevant to the performance of dentistry by a seated operator

3.1.2 **Anterio-posterior plane** – vertical plane which divides the operator's stool into left and right halves

3.1.3 **Seat height** – vertical distance between the floor and the point of intersection of the swivel axis with the plane of the loaded surface or the unloaded surface of the seat

3.1.4 **Seat width** – horizontal dimension of the widest part of the seat between the upper edges of the sides of the seat, measured perpendicularly to the anteroposterior plane of the seat

3.1.5 **Seat depth** – horizontal dimension measured alongside the center of the seat width in the anteroposterior plane of the seat between the vertical projections of the front edge and the back edge of the seat

NOTE: If the stool is provided with a backrest, the dimension is measured between the foremost projection of the