



Standard Specification for Ovens, Microwave, Electric¹

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This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers commercial microwave ovens. These ovens use ultrahigh frequency electromagnetic radiation in the approved industrial, scientific, and medical bands to defrost, heat, and cook food.

1.2 *Limitations*—This specification does not include all types, sizes, groups, styles, and classes of the commodities indicated by the titles of the specification, or that are commercially available, but is intended to cover the types, sizes, groups, styles, and classes that are suitable for general requirements.

1.3 *Oven Selection And Application*—Prior to the use of the classifications given in 4.1, the user agency should ensure they are not restricted by some aspect of the microwave oven design such as a weight or external dimension limitation that would prevent the unrestricted use of the classifications given in 4.1.

1.4 *Microwave Oven Availability*—Although 4.1 lists a wide range of sizes, classes, groups, and styles for commercial types of ovens, not all combinations are available.

1.5 The values stated in inch-pound units are to be regarded as the standard. The SI units given in parentheses are for information only.

1.6 The following precautionary caveat pertains to the test method portion only, Section 11, of this specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

A167 Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip

A176 Specification for Stainless and Heat-Resisting Chromium Steel Plate, Sheet, and Strip

A240/A240M Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

B108 Specification for Aluminum-Alloy Permanent Mold Castings

B209 Specification for Aluminum and Aluminum-Alloy Sheet and Plate

D3951 Practice for Commercial Packaging

F760 Specification for Food Service Equipment Manuals

F1166 Practice for Human Engineering Design for Marine Systems, Equipment, and Facilities

2.2 ANSI Standards:³

B1.1 Unified Inch Screw Threads (UN and UNR Thread Form)

C62.41 Guide for Surge Voltages in Low Voltage AC-Power Circuits³

WD-6 Wiring Devices—Dimensional Requirements³

Z1.4 Sampling Procedures and Tables for Inspection by Attributes³

2.3 International Electrotechnical Commission Standard:³

Standard No. 705 Methods for Measuring the Performance of Microwave Ovens for Household and Similar Purposes

2.4 National Sanitation Foundation Standard:⁴

NSF/ANSI 4 Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transport Equipment

¹ This specification is under the jurisdiction of ASTM Committee F26 on Food Service Equipment and is the direct responsibility of Subcommittee F26.02 on Cooking and Warming Equipment.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

⁴ Available from NSF International, P.O. Box 130140, 789 N. Dixboro Rd., Ann Arbor, MI 48113-0140.