



Designation: F 1603 – 95

Standard Specification for Kettles, Steam-Jacketed, 32 oz to 20 gal (1 to 75.7 L), Tilting, Table Mounted, Direct Connected, Gas Fired and Electric Fired¹

This standard is issued under the fixed designation F 1603; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification covers jacketed kettles that utilize steam as a heat source for cooking food in commercial and institutional food service establishments. This specification does not cover equipment used by food processors who normally package the food that they cook.

1.2 The values stated in inch-pound units are to be regarded as the standard.

1.3 *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:

A 167 Specification for Stainless and Heat-Resisting Chrome-Nickel Steel Plate, Sheet, and Strip²

A 176 Specification for Stainless and Heat-Resisting Chromium Steel Plate, Sheet, and Strip²

A 240/A 240M Specification for Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels²

A 285/A 285M Specification for Pressure Vessel Plates, Carbon Steel, Low- and Intermediate Tensile Strength³

A 580/A 580M Specification for Stainless Steel Wire²

B 456 Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium⁴

F 760 Specification for Food Service Equipment Manuals⁵

F 1166 Practice for Human Engineering Design for Marine Systems, Equipment and Facilities⁶

D 3951 Practice for Commercial Packaging⁷

2.2 ANSI Standards:⁸

ANSI/UL 197 Commercial Electric Cooking Appliances

ANSI Z83.15 Gas Food Service Equipment—Kettles, Steam Cookers and Steam Generators

ANSI/NSF Std. 4 Commercial Cooking and Hot Food Storage Equipment

ANSI 223.1 National Fuel Gas Code

ANSI/NFPA 70 National Electrical Code

ANSI Z1.4 Sampling Procedures and Tables for Inspection by Attributes

2.3 ASME Standards:⁹

ASME Boiler and Pressure Vessel Code, Section IV Heating Boilers

ASME Boiler and Pressure Vessel Code, Section VIII—Division 1 Pressure Vessels

2.4 Military Standards:¹⁰

MIL-C-104 Crates: Wood, Lumber and Plywood Sheathed, Nailed and Bolted

MIL-STD-167/1 Mechanical Vibration of Shipboard Equipment (Type I—Environmental, and Type II—Internally Excited)

MIL-STD-461 Electromagnetic Emission and Susceptibility Requirements for the Control of Electromagnetic Interference

MIL-STD-462 Electromagnetic Interference Characteristics, Measurement of

MIL-STD-1399/300 Interface Standard for Shipboard Systems, Section 300A Electric Power, Alternating Current

MIL-V-173 Varnish, Moisture and Fungus Resistant

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *jacketed kettle*—as used in this specification, a tilting, deep sided vessel (steam jacketed) of 32 oz to 20 gal (1 to 75.7 L) capacity for cooking food in a liquid.

3.1.1.1 *Discussion*—These kettles can be mounted onto the purchaser's table or be specified already mounted on any of the

¹ This specification is under the jurisdiction of ASTM Committee F-26 on Food Service Equipment and is the direct responsibility of F26.02 on Cooking and Warming Equipment.

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² Annual Book of ASTM Standards, Vol 01.03.

³ Annual Book of ASTM Standards, Vol 01.04.

⁴ Annual Book of ASTM Standards, Vol 02.05.

⁵ Annual Book of ASTM Standards, Vol 15.07.

⁶ Annual Book of ASTM Standards, Vol 01.07.

⁷ Annual Book of ASTM Standards, Vol 15.09.

⁸ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.

⁹ Available from American Society for Mechanical Engineers, United Engineering Center, 345 E. 47th St., New York, NY 10017.

¹⁰ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.