



Standard Specification for Kettles, Steam-Jacketed, 20 to 200 gal (75.7 to 757 L), Floor or Wall Mounted, Direct Steam, Gas and Electric Heated¹

This standard is issued under the fixed designation F1602; 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.

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

1. Scope

1.1 This specification covers jacketed kettles that use 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. The values given in parentheses are for information only.

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:²

- A36/A36M Specification for Carbon Structural Steel
- 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
- A285/A285M Specification for Pressure Vessel Plates, Carbon Steel, Low- and Intermediate-Tensile Strength
- A516/A516M Specification for Pressure Vessel Plates, Carbon Steel, for Moderate- and Lower-Temperature Service
- A580/A580M Specification for Stainless Steel Wire

- B456 Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium
- D3951 Practice for Commercial Packaging
- F760 Specification for Food Service Equipment Manuals
- F1166 Practice for Human Engineering Design for Marine Systems, Equipment, and Facilities
- F1785 Test Method for Performance of Steam Kettles

2.2 ANSI Standards:³

- ANSI/NFPA 70 National Electrical Code
- ANSI/NSF Std. 4 Commercial Cooking and Hot Food Storage Equipment
- ANSI/UL 197 Commercial Electric Cooking Appliances
- ANSI Z1.4 Sampling Procedures and Tables for Inspection by Attributes
- ANSI/Z83.11 Gas Foodservice Equipment—Kettles, Steam Cookers and Steam Generators
- ANSI/Z223.1 National Fuel Gas Code

2.3 ASME Standards:⁴

- ASME Boiler and Pressure Vessel Code, Section IV Heating Boilers
- ASME Boiler and Pressure Vessel Code, Section VIII, Division 1 Pressure Vessels

2.4 Federal Standards:⁵

- MIL-STD-167/1 Mechanical Vibration of Shipboard Equipment (Type I—Environmental and Type II—Internally Excited)
- MIL-STD-461 Requirements For the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment
- MIL-STD-1399/300 Interface Standard for Shipboard Systems Section 300A Electric Power, Alternating Current

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

Current edition approved Nov. 1, 2012. Published December 2012. Originally approved in 1995. Last previous edition approved in 2007 as F1602 – 07. DOI: 10.1520/F1602-12.

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, 11 W. 42nd St., 13th Floor, New York, NY 10036.

⁴ Available from American Society for Mechanical Engineers, United Engineering Center, 345 E. 47th St., New York, NY 10017.

⁵ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS or Acquisition Streamlining and Standardization Information System (ASSIST), which is the official source of all documents listed in the DoD Index of Specifications and Standards. The ASSIST can be located at <http://dsp.dla.mil>.