



Standard Consumer Safety Specification for Utility Lighters¹

This standard is issued under the fixed designation F 2201; 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.

^{ε1} NOTE—Editorial changes were made throughout in January 2003.

1. Scope

1.1 This consumer safety specification covers all flame-producing consumer products commonly known as utility lighters (also known as grill lighters, fireplace lighters, lighting rods, or gas matches) and such similar devices as defined in 3.1.14. Matches are specifically excluded from this specification; flame-producing products intended for igniting cigars, pipes, and cigarettes are also specifically excluded from this safety specification and are covered in Consumer Safety Specification F 400.

1.2 This specification establishes requirements for utility lighters to ensure a reasonable degree of safety for normal use and reasonably foreseeable misuse of such utility lighters by users.

1.3 Utility lighters, being flame-producing devices, can, as can all flame sources, present a potential hazard to the user. This specification cannot eliminate all hazards, but it is intended to minimize potential hazards of utility lighters to users.

1.4 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.5 All utility lighters are subject to the mandatory child resistance requirements found at 16 CFR Part 1212 and the labeling requirements found at 16 CFR Part 1500. See Annex A2.

1.6 The following precautionary caveat pertains only to the test methods portion, Section 8, 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 requirements prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

F 400 Consumer Safety Specification for Lighters²

2.2 Code of Federal Regulations:³

16 CFR Part 1212 Safety Standard for Multi-Purpose Lighters

16 CFR Part 1500 Federal Hazardous Substances Act Regulations

2.3 Other Federal Documents:⁴

15 USC Section 1261 Federal Hazardous Substances Act

15 USC Section 2056 Consumer Product Safety Act

15 USC Section 2058 Consumer Product Safety Act

2.4 Military/ISO Standards:⁵

MIL-STD-105D (ISO 2859) Sampling Procedures and Tables for Inspection by Attributes

MIL-STD-414 (ISO 3951) Sampling Procedures and Tables for Inspection by Variables for Percent Defective

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *flame, n*—the result of combustion of fuel that produces heat and often light that could be visible to the naked eye under normal or subdued lighting conditions.

3.1.2 *flame height, n*—a linear distance from the tip of the visible flame to the end of the shield.

3.1.3 *flaring, n*—a variance of flame height from the steady-state flame condition.

3.1.4 *fuel, n*—a butane, isobutane, propane, or other liquefied hydrocarbon, or a mixture containing any of these, whose vapor pressure at 24°C (75°F) exceeds a gage pressure of 103 kPa (15 lbf/in.²).

3.1.5 *fuel reservoir, n*—a structure that stores the fuel prior to release.

3.1.6 *ignite, v*—to produce a flame with a utility lighter by activating the self-contained ignition and fuel release systems of that utility lighter in the intended manner.

3.1.7 *ignition system, n*—the system that generates a spark to ignite the fuel, such as a piezo mechanism or battery.

3.1.8 *nozzle, n*—the end of the fuel discharge system.

¹ This consumer safety specification is under the jurisdiction of ASTM Committee F15 on Consumer Products and is the direct responsibility of Subcommittee F15.02 on Safety Standards for Lighters.

Current edition approved Oct. 10, 2002. Published December 2002.

² Annual Book of ASTM Standards, Vol 15.07.

³ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401.

⁴ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401.

⁵ Available from International Organization for Standardization (ISO), 1 rue de Varembe, Case postale 56, CH-1211, Geneva 20, Switzerland.