
Utility lighters — Safety specifications

Briquets utilitaires — Spécifications de sécurité



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Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Functional requirements	3
4.1 Flame generation	3
4.2 Flame heights	4
4.2.1 General	4
4.2.2 Non-adjustable postmixing burner utility lighters	4
4.2.3 Non-adjustable premixing burner utility lighters	4
4.2.4 Adjustable postmixing burner utility lighters	4
4.2.5 Adjustable premixing burner utility lighters	4
4.2.6 Adjustable postmixing burner utility lighters (flame height on first ignition)	5
4.2.7 Adjustable premixing burner utility lighters (flame height on first ignition)	5
4.2.8 Adjustable postmixing burner utility lighters (flame height at lowest setting)	5
4.2.9 Adjustable premixing burner utility lighters (flame height at lowest setting)	5
4.2.10 Dual flame type utility lighters	5
4.2.11 Multiple flame type utility lighters	5
4.3 Flame-height adjustment	5
4.4 Resistance to spitting or sputtering and flaring	6
4.5 Flame extinction	6
4.5.1 Adjustable postmixing burner utility lighters	6
4.5.2 Adjustable and non-adjustable postmixing burner utility lighters	7
4.5.3 Adjustable and non-adjustable premixing burner utility lighters	7
4.5.4 Dual flame type utility lighters	7
4.5.5 Multiple flame type utility lighters	7
4.6 Volumetric displacement of fuel	7
4.7 Mass of fuel	7
5 Structural-integrity requirements	7
5.1 General	7
5.2 Resistance to dropping	7
5.3 Resistance to elevated temperature	8
5.4 Burning behaviour	8
5.5 Resistance to continuous burning	9
5.6 Resistance to cyclic burning	9
5.7 External finish	9
5.8 Compatibility with fuel	9
5.9 Resistance to internal pressure	9
6 Refilling of utility lighters	9
7 Instructions and warnings	9
7.1 Safety information	9
7.1.1 General	9
7.1.2 Location	9
7.1.3 Content	10
7.1.4 Safety signs	10
7.2 Refilling instructions	11
8 Test methods	12
8.1 Test specimens and test sequencing	12
8.1.1 Test specimens	12
8.1.2 Test sequencing	12

8.2	Flame height measurement	12
8.2.1	General	12
8.2.2	Apparatus	12
8.2.3	Test specimens	12
8.2.4	Procedure	12
8.3	Spitting, sputtering and flaring tests	12
8.3.1	General	12
8.3.2	Test specimens	12
8.3.3	Procedure	13
8.4	Flame extinction test	14
8.4.1	General	14
8.4.2	Test specimens	14
8.4.3	Apparatus	14
8.4.4	Procedure	14
8.5	Drop test	14
8.5.1	General	14
8.5.2	Significance	14
8.5.3	Apparatus	14
8.5.4	Test specimens	15
8.5.5	Procedure	15
8.6	Elevated temperature test	15
8.6.1	General	15
8.6.2	Significance	15
8.6.3	Apparatus	15
8.6.4	Test specimens	16
8.6.5	Procedure	16
8.7	Continuous-burning-time test	16
8.7.1	General	16
8.7.2	Test specimens	16
8.7.3	Apparatus	17
8.7.4	Procedure	17
8.8	Cyclic burning time test	17
8.8.1	General	17
8.8.2	Significance	17
8.8.3	Test specimens	17
8.8.4	Procedure	17
8.9	Fuel compatibility test	18
8.9.1	General	18
8.9.2	Test specimens	18
8.9.3	Apparatus	18
8.9.4	Procedure	18
8.10	Internal-pressure test	19
8.10.1	General	19
8.10.2	Significance	19
8.10.3	Apparatus	19
8.10.4	Test specimens	19
8.10.5	Procedure	19
8.11	Refilling test	20
8.11.1	General	20
8.11.2	Procedure	20
8.12	Fuel volumetric-displacement test	20
8.12.1	General	20
8.12.2	Apparatus	20
8.12.3	Test specimens	20
8.12.4	Procedure	20
9	Product marking	22
	Annex A (normative) Test sequencing	23

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 4, *Burning behaviour*.

This second edition cancels and replaces the first edition (ISO 22702:2003), which has been technically revised. It also incorporates the Amendment ISO 22702:2003/Amd.1:2008.

The main changes compared to the previous edition are as follows:

- [Clause 2](#), [3.20](#), [3.21](#), [subclause 4.2.10](#), [subclause 4.2.11](#), [subclause 4.5.4](#), [subclause 4.5.5](#), [subclause 4.7](#), [subclause 8.1](#), [subclause 8.8.4.9](#), [subclause 8.8.4.10](#) have been added;
- [subclause 5.4](#), [subclause 5.7](#), [subclause 7.1.4](#), [Figure 3](#), [Figure 4](#), [Figure 6](#), [subclause 8.3.3](#), [Figure 8](#), [subclause 8.7.4](#), [subclause 8.10.5](#), [subclause 8.12.4](#) and [Annex A](#) have been modified;
- Bibliography has been deleted.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Utility lighters, being flame-producing devices, can, as do all flame sources, present a potential hazard to the user. The safety specifications given in this document cannot eliminate all hazards, but are intended to minimize potential hazards of utility lighters to users.

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Utility lighters — Safety specifications

WARNING — This document does not purport to address all the safety concerns, if any, associated with its use. It is the responsibility of the user of this document to establish appropriate safety and health practices and to determine the applicability of any other restrictions.

1 Scope

This document specifies requirements for utility lighters to ensure a reasonable degree of safety for normal use or reasonably foreseeable misuse of such lighters by users.

This document applies to all flame-producing consumer products commonly known as utility lighters (also known as grill lighters, fireplace lighters, lighting rods or gas matches), and similar devices.

It does not apply to matches and flame-producing products intended for igniting cigars, pipes and cigarettes.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 7941, *Commercial propane and butane — Analysis by gas chromatography*

UL 1439, *Tests for Sharpness of Edges on Equipment*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

valve

component of a *utility lighter* (3.6) that controls the input or release of *fuel* (3.9)

3.2

nozzle

end of the fuel discharge system

3.3

flame height

linear distance from the tip of the visible *flame* (3.19) to the end of the *shield* (3.12)

3.4

flaring

variation of *flame height* (3.3) from the steady-state flame condition