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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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Submission of Comments

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT International Standard

ISO/DIS 22702

Utility lighters — Safety specifications

Briquets utilitaires — Spécifications de sécurité

ICS: 97.180

ISO/TC 61/SC 4

Secretariat: **BSI**

Voting begins on:
2025-11-17

Voting terminates on:
2026-02-09

This document is circulated as received from the committee secretariat.

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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).

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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 third edition cancels and replaces the second edition (ISO 22702:2018), which has been technically revised.

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

- [Subclauses 3.3](#), [3.4](#), [3.6](#), [3.11](#) and [3.16](#) have been modified. [Subclauses 3.22](#), [3.23](#), [3.24](#) and [3.25](#) have been added.
- [Subclause 4.7](#) has been modified.
- [Subclause 6.2](#) has been modified. [Subclause 6.3](#) has been added.
- [Clause 7](#) has been modified.
- [Subclause 8.1.2](#) has been modified.
- [Subclause 8.2.2.1](#) has been modified. [Subclauses 8.2.2.2](#) and [8.2.2.3](#) have been added.
- [Subclause 8.2.4.4](#) has been modified.
- [Clause 8.3](#) has been modified.
- [Subclause 8.10.5.3](#) has been modified.
- [Subclause 8.11.1](#) has been modified. [Subclauses 8.11.2](#) and [8.11.3.1](#) have been added.

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 articles, 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.

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 terminology databases for use in standardization at the following addresses:

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

Note 1 to entry: Flame height as observed by the naked eye.

3.4

flaring

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

Note 1 to entry: Flaring as observed by the naked eye.

3.5**ignite**

produce a *flame* (3.19) with a *utility lighter* (3.6) by activating the self-contained ignition and fuel release systems of that *utility lighter* (3.6) in the intended manner

3.6**utility lighter**

hand-held, flame-producing *article* (3.22) with a manually-operated ignition system, 100 mm or greater in length when in the fully extended position, employing a *fuel* (3.9), used primarily to ignite items such as candles, fuel for fireplaces, charcoal- or gas-fired grills, camp stoves, lanterns, fuel-fired appliances or devices and/or pilot lights

Note 1 to entry: Utility lighters are not considered *substances* (3.23), *mixtures* (3.24), a container with a substance or a mixture, or a combination of article and substance/mixture.

Note 2 to entry: Utility lighters are not considered *aerosol dispensers* (3.25).

3.7**adjustable utility lighter**

utility lighter (3.6) that is received by the consumer with a mechanism for the user to manually vary the *flame height* (3.3)

3.8**non-refillable utility lighter****disposable utility lighter**

utility lighter (3.6) that is received by the user with a supply of fuel and that is not intended to be refuelled

3.9**fuel**

butane, isobutane, propane or other liquefied hydrocarbon, or a mixture containing any of these, whose vapour pressure at 24 °C exceeds a gauge pressure of 103 kPa

3.10**non-adjustable utility lighter**

utility lighter (3.6) that has a *flame height* (3.3) preset by the manufacturer and is not provided with a mechanism to adjust the *flame height* (3.3)

3.11**refillable utility lighter**

utility lighter (3.6) that is intended to be refuelled either by transferring *fuel* (3.9) from an external container or by inserting a new prefilled fuel reservoir

3.12**shield**

structure that totally or partially surrounds the *nozzle* (3.2) of the *utility lighter* (3.6)

3.13**sustained self-ignition**

propagation of a *flame* (3.19) by other than deliberate manual operation, such as by dropping the *utility lighter* (3.6), so as to cause the *ignition system* (3.16) to be activated and the flame to continue to burn

3.14**spitting****sputtering**

flame phenomenon of a *utility lighter* (3.6) wherein the escape of non-evaporated or liquid fuel produces a shower of burning liquid droplets which separate from the main flame

3.15**fuel reservoir**

structure that stores the *fuel* (3.9) prior to release