



BSI Standards Publication

Guidelines for assessing the adverse environmental impact of fire effluents

Part 1: General

National foreword

This British Standard is the UK implementation of [ISO 26367-1:2019](#). It supersedes [BS ISO 26367-1:2011](#), which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee FSH/21, Reaction to fire tests.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Guidelines for assessing the adverse environmental impact of fire effluents —

Part 1: General

*Lignes directrices pour déterminer l'impact environnemental des
effluents du feu —*

Partie 1: Généralités



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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).

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 92, *Fire safety*, Subcommittee SC 3, *Fire threat to people and environment*.

This second edition cancels and replaces the first edition (ISO 26367:2011), which has been technically revised.

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

- Additional terms have been added to [Clause 3](#).
- Revision of [Clause 4.3.2](#).
- Additional examples of recent significant fire incidents were added to [Table A.1](#) in [Annex A](#).

A list of all parts in the ISO 26367 series can be found on the ISO website.

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

In view of the fact that relevant quantitative data on environmentally hazardous components of fire effluents cannot routinely be obtained from accidental fires, appropriate data may also have to be obtained from real scale fire tests and simulations involving physical fire models.

General awareness of the fact that large fires present dramatic and persistent adverse effects on the environment has been accentuated by a number of high-impact incidents over the past half-century. [Annex A](#) contains a list of significant fire incidents in recent years.

The serious consequences of such events have confirmed that the environmental impact of fires is an important issue that needs to be dealt with internationally and systematically. This document provides a framework for a common treatment of the environmental impact of fires in answer to this pressing need.

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Guidelines for assessing the adverse environmental impact of fire effluents —

Part 1: General

1 Scope

This document gives guidelines whose primary focus is the assessment of the adverse environmental impact of fire effluents, including those from fires occurring in commercial and domestic premises, unenclosed commercial sites, industrial and agricultural sites, as well as those involving road, rail and maritime transport systems. It is not applicable to direct acute toxicity issues or wildland fires, which are covered by other existing ISO standards.

It is intended to serve as a tool for the development of standard protocols for

- a) the assessment of local and remote adverse environmental impacts of fires, and the definition of appropriate preventive measures,
- b) post-fire analyses to identify the nature and extent of the adverse environmental impacts of fires, and
- c) the collection of relevant data for use in environmental fire hazard assessments.

This document is intended as an umbrella document to set the scene concerning *what* should be considered when determining the environmental impact of fires. It is not a comprehensive catalogue of methods and models defining *how* to determine the environmental impact of fires, intended to be addressed by other parts of [ISO 26367](#).

This document is principally intended for use by firefighters and investigators, building owners and managers, storage facility operators, materials and product manufacturers, insurance providers, environmental regulatory authorities, civil defence organizations and public health authorities.

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 13943](#), *Fire safety — Vocabulary*

[ISO 26367-2](#), *Guidelines for assessing the adverse environmental impact of fire effluents — Part 2: Methodology for compiling data on environmentally significant emissions from fires*

[ISO/TR 26368](#), *Environmental damage limitation from fire-fighting water run-off*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in [ISO 13943](#), [ISO 26367-2](#) and [ISO/TR 26368](#) and the following apply.

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

— IEC Electropedia: available at <http://www.electropedia.org/>