

Implementation of ISO/TR 9122-4:1993

Toxicity testing of fire effluents —

Part 4: The fire model (furnaces and combustion apparatus used in small-scale testing)

ICS 13.020; 13.300

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The preparation of this British Standard was entrusted by Technical Committee FSH/16, upon which the following bodies were represented:

- British Cable Makers Confederation
- British Electrical Systems Association (BEAMA Ltd.)
- British Plastics Federation
- British Railways Board
- British Rigid Urethane Foam Manufacturers' Association
- British Rubber Manufacturers Association Ltd.
- British Textile Technology Group
- Chemical Industries Association
- Chief and Assistant Chief Fire Officers Association
- Consumer Policy Committee of BSI
- Department of Health
- Department of the Environment (Building Research Establishment)
- Department of Trade and Industry (Consumer Safety Unit, CA Division)
- International Wool Secretariat
- Loss Prevention Council
- Queen Mary and Westfield College
- RAPRA Technology Ltd.
- Warrington Fire Research Centre

This British Standard, having been prepared under the direction of the Consumer Products and Services Sector Board, was published under the authority of the Standards Board and comes into effect on 15 December 1996

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National foreword

This British Standard reproduces verbatim ISO TR 9122-4:1993 and implements it as the UK national standard. It is related to PD 6503-1:1990 which is the UK adoption of ISO/TR 9122-1:1989. When ISO/TR 9122-1:1989 is revised, it is intended that it will be implemented as the UK national standard.

The Technical Committee had earlier decided not to implement ISO/TR 9122-2 as the UK national standard but to publish a national document (PD 6503-2) instead. PD 6503-2:1988 remains current until the 1990 edition of ISO/TR 9122-2 is revised when it is envisaged that the new edition of ISO/TR 9122-2 will be implemented as a British Standard.

To avoid any further confusion, the decision has been made to implement all the remaining Parts of the ISO/TR 9122 series as British Standards rather than producing national documents as further Parts of PD 6503.

This British Standard is published under the direction of the Consumer Products and Services Sector Board whose Technical Committee FSH/16 has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international committee any enquiries on interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

NOTE International and European Standards, as well as overseas standards, are available from Customer Services, BSI, 389 Chiswick High Road, London W4 4AL.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ISO title page, pages ii to iv, pages 1 to 17, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

TECHNICAL REPORT

ISO TR 9122-4

First edition
1993-05-15

Toxicity testing of fire effluents —

Part 4:

The fire model (furnaces and combustion apparatus used in small-scale testing)

Essais de toxicité des effluents du feu —

Partie 4: Modèle feu (fours et appareillages de combustion utilisés dans les essais à petite échelle)



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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 main task of technical committees is to prepare International Standards, but in exceptional circumstances a technical committee may propose the publication of a Technical Report of one of the following types:

- type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;
- type 3, when a technical committee has collected data of a different kind from that which is normally published as an International Standard (“state of the art”, for example).

Technical Reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

ISO/TR 9122-4, which is a Technical Report of type 2, was prepared by Technical Committee ISO/TC 92, *Fire tests on building materials, components and structures*, Sub-Committee SC 3, *Toxic hazards in fire*.

This document is being issued in the type 2 Technical Report series of publications (according to subclause G.4.2.2 of part 1 of the ISO/IEC Directives) as a “prospective standard for provisional application” in the field of toxicity testing of fire effluents because there is an urgent need for guidance on how standards in this field should be used to meet an identified need.

This document is not to be regarded as an “International Standard”. It is proposed for provisional application so that information and experience of its use in practice may be gathered. Comments on the content of this document should be sent to the ISO Central Secretariat.

A review of this type 2 Technical Report will be carried out not later than two years after its publication with the options of: extension for another two years; conversion into an International Standard; or withdrawal.

ISO/TR 9122 consists of the following parts, under the general title *Toxicity testing of fire effluents*:

- *Part 1: General*;
- *Part 2: Guidelines for biological assays to determine the acute inhalation toxicity of fire effluents (basic principles, criteria and methodology)*;
- *Part 3: Methods for the analysis of gases and vapours in fire effluents*;
- *Part 4: The fire model (furnaces and combustion apparatus used in small-scale testing)*;
- *Part 5: Prediction of toxic effects of fire effluents*.

Annex A of this part of ISO/TR 9122 is for information only.

