INTERNATIONAL STANDARD

Third edition 2010-11-01

Reaction to fire tests — Ignitability of products subjected to direct impingement of flame —

Part 2: Single-flame source test

Essais de réaction au feu — Allumabilité de produits soumis à l'incidence directe de la flamme —

Partie 2: Essai à l'aide d'une source à flamme unique



Reference number ISO 11925-2:2010(E)

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Published in Switzerland

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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 Maison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical convertees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires apply by at least 75 % of the member bodies casting a vote.

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 pentifying any or all such patent rights.

ISO 11925-2 was prepared by Technical Committee ISO/TC 92, Fire safety, Subcommittee SC 1, Fire initiation and growth.

This third edition cancels and replaces the second replaces (ISO 11925-2:2002), which has been technically revised.

ISO 11925 consists of the following parts, under the general title Reaction to fire tests - Ignitability of products subjected to direct impingement of flame: - Generated by FLS

Part 1: Guidance on ignitability [Technical Report]¹⁾

- Part 2: Single-flame source test
- Part 3: Multi-source test¹⁾

¹⁾ The main title of ISO 11925 has been changed since these parts were first published, originally referring to the ignitability of *building* products only. It is intended that these parts be aligned with the new main title at their next revision.

Introduction

This fire test method has been developed to define reaction to the fire performance of products. The method specifies a test for determining the ignitability of products by direct small-flame impingement under zero impressed irradiance using vertically oriented test specimens.

specifies a test for determining the ignitability of products by direct small-hame impringement under zero impressed irradiance using vertically oriented test specimens. Although the method is designed to assess ignitability, this is addressed by measuring the spread of a small frame up the vertol surface of a specimen following application of a small (match-sized) flame to either the surface or edge of the pecimen for either 15 s or 30 s. The determination of the production of flaming droplets depends on whether or pot the filter paper placed beneath the specimen ignites.

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Reaction to fire tests — Ignitability of products subjected to direct impingement of flame —

Part 2: Single-flame source test

WARNING — The attention of all persons concerned with managing and carrying out this test is drawn to the fact that fire testing can be hazardous and that there is a possibility that toxic and/or harmful smoke and gases can be evolved during the test. Operational hazards can also arise during the testing of specimens and the disposal of test residues.

An assessment of all potential hazards and risks to health should be made and safety precautions identified and provided. Written safety instructions should be issued. Appropriate training should be given to relevant personnel. Laboratory personnel should ensure that they follow written safety instructions at all times.

Adequate means of extinguishing the specimen should be provided, bearing in mind that some specimens can produce severe flaming during the test. A hand water spray or an inert gas suppression system, e.g. compressed nitrogen, which can be directed to the burning area, should be available together with other means, such as the extinguishers.

In some cases, smouldering can be difficult to extinguish completely and immersion in water can be necessary.

1 Scope

This part of ISO 11925 specifies a method of test for determining the ignitability of products by direct small flame impingement under zero impressed irradiance using vertically oriented test specimens.

Information on the precision of the test method is given in Annex A.

2 Normative references

The following referenced documents are indispensable for the application of his document. For dated references, only the edition cited applies. For undated references, the lates edition of the referenced document (including any amendments) applies.

EN 13238, Reaction to fire tests for building products — Conditioning procedures and general rules for selection of substrates

ISO 13943, Fire safety — Vocabulary

ISO 14697, Reaction-to-fire tests — Guidance on the choice of substrates for building and transport products