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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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Reaction to fire tests - Mass loss measurement

燃烧性能试验 质量损失测定

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document was drafted with reference to ISO 17554:2014 "Tests for flammability - Determination of mass loss", and its degree of consistency is non-equivalent.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the National Fire and Rescue Administration.

This document is under the jurisdiction of the National Fire Protection Standardization Technical Committee (SAC/TC113).

1 Scope

This document describes a method for determining the mass loss of materials during combustion under radiant heating and open flame heating conditions.

This document applies to the determination of combustion mass loss of non-combustible flat materials and products.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 5907.1 Firefighting Glossary Part 1: General Terms GB/T 5907.2 Firefighting Glossary Part 2: Fire Prevention GB 8624 Classification of fire performance of building materials and products GB/T 20284-2006 Single-unit combustion test of building materials or products GB/T 40238 Requirements for selection of substrates, conditioning and installation of specimens for combustion testing of building materials and products ISO 14934-3 Fire tests - Calibration and use of heat flow meters - Part 3: Two-stage calibration method

3 Terms and Definitions

The terms and definitions defined in GB/T 5907.1, GB/T 5907.2 and GB 8624, as well as the following terms and definitions, apply to this document.

A surface with a flatness irregularity not exceeding $\pm 1\text{mm}$.

Flashing

A burning phenomenon with a sustained flame duration of less than 1 second was observed on or above the sample surface.

heat flux

The amount of heat emitted, transmitted, or received per unit area and per unit time.

Note: Thermal radiation flux is expressed in kilowatts per square meter (kW/m^2).