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

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**Thermal insulating materials for building applications -
Determination of organic content**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents" drafted.

This document is equivalent to ISO 29771.2008 "Determination of Organic Content of Thermal Insulation Materials for Buildings".

This document adds a chapter "Normative References".

The following minimal editorial changes have been made to this document.

a) Incorporating the amendments to ISO 29771.2008/Amd.1.2014, the outer margins of the clauses involved are marked with vertical double

Line (||) is marked;

b) Delete the note in "Scope".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the test instruments and test methods for the determination of the organic content of thermal insulation materials for buildings.

This document is suitable for the determination of organic content in inorganic materials, such as thermal insulation materials with or without veneers containing a small amount of

organic components.

This document does not apply to the determination of the organic content of materials containing carbohydrates and/or carbonates and sulfates.

This document does not apply to the determination of the organic content of products such as adhesives, veneers and coatings.

2 Normative references

There are no normative references in this document.

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

organiccontentorganiccontent

woc

The total amount of carbon compounds in a material or article.

Note. The content of organic matter in materials or products is expressed in mass fraction.

4 Principles

The ratio of the difference between the mass of the dried sample and the mass of the sample burned at a specific temperature and a specific time to the mass of the sample is the sample.

of organic matter content.

5.1 Balance, the division value is 0.001g.

5.2 Electric heating blast drying oven, ventilated, constant temperature, controllable temperature at (105 ± 5) degrees C or specified in relevant product standards or technical specifications

temperature.

5.3 Muffle furnace, ventilated and controllable temperature at (500 ± 20) degrees C or the temperature specified in relevant product standards or technical specifications.

5.4 The sample container, which is composed of inert material, should keep the quality unchanged during the test. Such as. porcelain crucible or aluminum tray, before the test will be tested

Put the test container into the (500+/-20) degrees C muffle furnace and burn it at least once, and the burning time is not less than 2h.

5.5 Desiccant, a container that ensures the drying of the sample during the cooling process after burning.

6.1 Sample selection

The thickness of the specimen shall be the thickness of the product. If the product has veneer, coating, the veneer or coating and adhesive should be completely removed. A sample should