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

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**Wood-based panels. Determination of formaldehyde release. Air
exhaust method**

甲醛释放量测定 抽吸法

(English Translation)

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is proposed and managed by the National Standardization Technical Committee for Wood-based Panels (SAC/TC198).

This standard was drafted. Nanjing Forestry University, Inner Mongolia Agricultural University, Suzhou Wude Artificial Board Equipment Co., Ltd., Nanjing product quality Supervise the inspection institute.

Introduction

The issuing organization of this document draws attention to the fact that when the statement conforms to this document, it may involve the invention of the State Intellectual Property Office of the People's Republic of China.

Patent No. ZL200410014867.9 The use of patents related to the determination of formaldehyde emission from artificial boards.

The issuing organization of this document has no position on the authenticity, validity and scope of the patent.

The holder of the patent has assured the issuing authority of this document that he is willing to work with any applicant on reasonable and non-discriminatory terms and conditions.

Negotiate a patent license. The patent holder's statement has been filed with the issuing authority of this document. Related information can be passed the following Contact information obtained.

Name of Patent Holder. Zhou Dingguo Zhou Xiaoyan Huang Helang Mei Changyu Xu Xinwu Address. No. 159, Longjing Road, Nanjing, Jiangsu Province (210037) College of Wood Industry, Nanjing Forestry University Please note that in addition to the above

patents, certain aspects of this document may still involve patents. The issuing organization of this document does not undertake to identify these special Liability.

Formaldehyde emission determination

1 Scope

This standard specifies the method for determining the amount of formaldehyde released from artificial boards.

This standard applies to high-density fiberboard, medium-density fiberboard, for floorboard and particleboard.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this document.

For undated references, the latest edition (including all amendments) applies to this document.

GB/T 17657 Artificial board and finished panel physicochemical properties test method

3.1 Principle

In a working chamber with a certain temperature, a certain flow of purified and dried air is introduced into the test box, and the test piece is sucked at a temperature and a negative pressure.

The formaldehyde contained in the release is released, and the released formaldehyde is introduced into a certain amount of formaldehyde absorption liquid through the air, and the formaldehyde absorption liquid is determined by spectrophotometry.

The formaldehyde content in the test process is shown in Figure 1.

1---outside air;

2---washing bottle;

3---membrane filter;

4---dryer;

5---air flow meter;

6---Oven;

7---sample box;

8---test piece;

9---formaldehyde absorption liquid;

10---Air pump;

11---exhaust gas;

12.1, 12.2, 12.3, 12.4---valves.

Figure 1 Flow chart of formaldehyde emission method