

ICS 79.080

LY

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

LY/T 3236-2020

**Grading and evaluation methods for odor of wood-based panels
and its products
(English Translation)**

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Foreword

This document was drafted in accordance with the rules provided in GB/T 1.1-2020

Directives for standardization - Part 1.Rules for the structure and drafting of
standardizing documents.

1 Scope

This document specifies the terms and definitions, test apparatuses, testing room environment, evaluator, test piece preparation, test method, odor grading and inspection report of grading and evaluation methods for odor of wood-based panels and its products.

This document applies to wood-based panels and its products, including plain wood-based panels, decorated wood-based panels, wooden floors, wooden wall panels, wooden doors and wood-based panel products.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 11414-2007, Laboratory glassware - Bottles

GB/T 15723-1995, Laboratory glassware - Desiccator

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

4.1 Wide-mouth glass bottle

It shall comply with the requirements of GB/T 11414-2007, with a volume of 2 500 mL, a sealed lid that is easy to open and close, and no odor at the temperatures of (20 ± 2) °C and (65 ± 2) °C. Figure 1 is a typical drawing of the dimensions of a wide-mouth glass bottle.

4.3 Oven

Temperature can be maintained at (65 ± 2) °C.

4.4 Constant temperature and humidity chamber

Temperature ranges within 10 °C ~ 80 °C, with an accuracy ± 2 °C; relative humidity ranges within 10% ~ 95%, with an accuracy of $\pm 5\%$.

5 Testing room environment

The testing room shall be fully ventilated, and the temperature shall be controlled at (20 ± 2) °C.

6.1.1 The evaluators shall have no olfactory defects, no habits such as smoking, using

heavily scented cosmetics, or chewing gum, etc. that affect the olfactory evaluation ability, and shall have relatively keen sense organs and identification abilities. Before starting the evaluation, identification tests shall be conducted to select individuals with better sensory sensitivity.

6.2.2 On the day of the test, odor evaluators shall not carry or use odorous spices,

cosmetics or skin care products that may affect the olfactory evaluation ability, and shall not eat foods with pungent odors. Odor evaluators who are suffering from colds or olfactory organ discomfort shall not participate in the measurement on that day.

7.1 Plain wood-based panels

For plywood, particleboard, fiberboard, block board, glued-laminated timber and other plain wood-based panels, an edge of (20 ± 0.5) mm shall be removed, and then the test piece shall be prepared from any part. The specification of the test piece is (25 ± 0.5) mm x (25 ± 0.5) mm x panel thickness, and the total weight of the test piece is (200 ± 10) g.

7.2 Decorated wood-based panels

For decorated wood-based panels, an edge of (20 ± 0.5) mm shall be removed, and then the test piece shall be prepared from any part of the panel.

7.3 Wooden floors

For wooden floors, the test piece shall be prepared after removing the tongue and groove. The specification of the test piece is (150 ± 0.5) mm x (150 ± 0.5) mm x floor thickness, and the four sides are sealed with odorless aluminum foil. If the wooden floor sample is not wide enough, it can be spliced. The number of test pieces is 10.

7.5 Wooden doors

Prepare test pieces from the four corners and edges of the wooden door. The specification of the test piece is (150 ± 0.5) mm x (150 ± 0.5) mm x door thickness, the sawn edges are sealed with odorless aluminum foil. It shall be ensured that at least 4 test pieces are taken from the four corners, and the remaining test pieces can be taken from the edges (retaining the door edges). The number of test pieces is 8.

7.6 Wood-based panel products

Prepare a test piece from the edge-sealed corner of the wood-based panel product. The specification of the test piece is (150 ± 0.5) mm x (150 ± 0.5) mm x panel thickness. If the sample size is not enough, multiple samples can be sawed and cut to form one test piece. Seal the sawn edges with odorless aluminum foil.

8.1 Pretreatment of test pieces

Before the test, place the test pieces in an odorless environment with a temperature of (20 ± 2) °C and a relative humidity of (65 ± 5) %, and adjust for $72\text{ h} \pm 5\text{ min}$.

8.2.2 Decorated wood-based panels, wooden floors, wooden wall panels, wooden doors and wood-based panel products

9 Odor grading

See Table 1 for odor grades and descriptions.

10 Test report

The test report shall cover the following content.

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