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**LY**

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

**LY/T 3150-2019**

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**Composition cork for shoe outsoles**

鞋底用软木

**(English Translation)**

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### Foreword

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

This standard uses the redrafting method to modify and adopt ISO 9986.:2014 "Compound Cork for Sole".

The technical differences between this standard and ISO 9986.:2014 and the reasons are as follows.

-Regarding the normative reference documents, this standard has made adjustments with technical differences to suit China's technical conditions.

The situation is reflected in Chapter 2 "Regulatory Reference Documents", and the specific adjustments are as follows.

Removed ISO 4714 and ISO 7322 referenced by ISO 9986.:2014 (see Chapter 2 of ISO 9986.:2014) Added reference to GB/T 17657 (see 5.3.2);

Added reference to GB/T 18103 (see 5.3.1);

Added reference to LY/T 1657 (see 5.3.4 and 5.3.8).

-Added specific dimensional deviation requirements (see 3.1).

-Deleted the specific content of the "size test procedure" and cited the size test method of GB/T 18103 (see 5.3.1).

-The specific content of the "water content test procedure" has been deleted, and the water content test method of GB/T 17657 has been cited (see 5.3.3).

-Added "Chapter 6 Marking, Packaging, Transportation and Storage".

-Deleted "x 10" in equation (A.1) (see equation (A.1)) to ensure the calculation formula is accurate.

The following editorial changes have been made to this standard.

-Modify daN/cm<sup>2</sup> to SI derived unit MPa (see 3.6).

Please note that some elements of this document may involve patents. The issuer of this document is not responsible for identifying these patents.

This standard was proposed and managed by the National Forestry Biomass Standardization Technical Committee (SAC/TC 416).

This standard was drafted. Institute of Wood Industry, Chinese Academy of Forestry, Northeast Forestry University, Shenzhen Jin Lixin Hardware Machinery Co., Ltd., Henan Jianuowei Wood Industry Co., Ltd., China Forest Products Industry Association, China Forestry Ecological Development Promotion Association, National Forestry and Grassland Bureau Forest Products Industry Planning and Design Institute, Hebei Agricultural University.

## 1 Scope

This standard specifies requirements, sampling, test methods and test reports for composite cork for soles (including heels).

This standard applies to composite cork used in the production of soles (including heels).

## 2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 17657 Test methods for physical and chemical properties of wood-based panels and facing wood-based panels GB/T 18103 parquet LY/T 1657 cork floor

### 3.1 Dimensions and Deviations

The specifications of composite cork blocks used in the production of soles are as follows.

- a) Length. 950 mm, 1025 mm, 1250 mm;
- b) width. 640 mm, 525 mm;
- c) Thickness. 30 mm, 60 mm, 100 mm, 150 mm, 200 mm.

According to the agreement between the supply and demand parties, composite cork for soles of other specifications can be produced.

The dimensional deviation should meet the requirements of Table 1.

Table 1 Dimensional deviation requirements

Project requirements Length deviation  $\leq 1.00$  mm Width deviation  $\leq 0.70$  mm Thickness deviation when nominal thickness is 30 mm, 60 mm, 100 mm,  $\leq 0.25$  mm  $\leq 0.50$  mm when nominal thickness is 150 mm, 200 mm

### 3.2 Density

The density of the composite cork block or board is  $\geq 250$  kg/m<sup>3</sup>, and it shall be tested according to the provisions of 5.3.2.

### 3.3 Water content

The moisture content of the composite cork block or board is  $\leq 8\%$ , and it shall be tested according to the provisions of 5.3.3.

### 3.4 Resistance to boiling water

After testing according to the provisions of 5.3.4, the composite cork block or board did not crack or dissolve.

### **3.5 Water retention and loss**

The composite cork block or board has a water retention rate of  $\leq 30\%$  and a water loss rate of  $> 40\%$ , and is tested in accordance with 5.3.5.

### **3.6 Bending resistance**

Bending pressure of 1 MPa shall be applied for testing of non-immersed test pieces, and bending pressure of 0.5 MPa shall be applied for testing of immersed test pieces, according to 5.3.6 the specified test method, no cracking of composite cork block or board.

### **3.7 Mold resistance**

After testing according to the provisions of 5.3.7, there is no mold growth on the surface of the composite cork block or board.

### **3.8 Tensile strength**

The tensile strength of the composite cork block or board  $\geq 0.2$  MPa shall be tested in accordance with the provisions of 5.3.8.

## **4 Sampling**

If the number of unit products in the same batch of products is  $\leq 500$ , 1% of the products are randomly selected as samples. If the number of unit products in the same batch of products  $> 500$ , then randomly select 0.2% of the product as a sample, and the number of samples is  $\geq 10$ .

The number of samples is rounded up.

### **5.1 Equipment**

#### **5.1.1**

Steel tape measure with a length of 3 m and a graduation value of 1.0 mm.

#### **5.1.2**

Steel ruler with a division value of 0.5 mm.

#### **5.1.3**

Micrometer with a division value of 0.01 mm.

#### **5.1.4**

Vernier caliper, division value is 0.1 mm.