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LY

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

LY/T 2374-2014

**Methods for determining penetration of effective ingredients in
preservatives and fire retardants treated wood**
(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 is proposed and managed by the National Timber Standardization Technical Committee (SAC/TC41).

1 Scope

This standard specifies boron, copper, arsenic, zinc, hexavalent chromium, phosphorus, pentachlorophenol and its sodium salt and 8-hydroxyquinoline copper in preservative wood and fire retardant wood.

A method for detecting the penetration of an active ingredient.

This standard is applicable to the determination of boron, copper, arsenic, zinc, hexavalent chromium, phosphorus, pentachlorophenol and its sodium salt and 8-hydroxyquinoline in preservative wood and fire retardant wood.

The penetration of the copper active ingredient in the treated material.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

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

GB/T 14019-2009 Wood anti-corrosion terminology GB/T 27651 Classification and requirements for the use of preservative wood GB/T 27654 wood preservative

3 Terms and definitions

The following terms and definitions as defined in GB/T 14019-2009, GB/T 27651 and GB/T 27654 apply to this document.

Penetration the extent to which the preservative or flame retardant (active ingredient) penetrates into the wood. Including the depth of preservatives or flame retardants penetrated into the wood and preservatives or resistance the penetration rate of the flammable agent in the sapwood.

Sapwood penetration rate penetrationpercentageinsapwood the ratio of the depth of penetration of the preservative or flame retardant (active ingredient) into the wood sapwood to the total depth of the wood (same side) sapwood, expressed in %.

4 Instruments

4.1

Hollow drill (5 mm or 10 mm aperture).

4.2

Flat ruler (length 150mm) or integrator (measurement accuracy 1mm²).

4.3

Brown and white indicator bottles with a dropper (100 mL).

4.4

Surface dish (70mm or 90mm in diameter).

5 Preparation of samples to be tested

Samples containing sapwood should be selected for the sample to be tested. The test sample should be sampled at the length of the wood and about 500 mm from the port.

The sample site should avoid the knots, cracks, ends and stress wood of the wood. After the position is determined, the cross section of the wood takes a piece of wood in the middle or drills with a hollow drill.