



# Standard Specification for Acid Copper Chromate<sup>1</sup>

This standard is issued under the fixed designation D 1624; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This specification covers acid copper chromate, either in the solid granulated form, or in solution, for use in the preservative treatment of wood.

## 2. Referenced Documents

2.1 *ASTM Standards:*

D 1627 Test Method for Chemical Analysis of Acid Copper Chromate<sup>2</sup>

2.2 *Other Standard:*

AWPA P5 Standards for Waterborne Preservatives<sup>3</sup>

## 3. Composition and Properties

3.1 Acid copper chromate in solid form or treating solution shall have the following composition, subject to the specified limits:

	Minimum	Nominal
Copper, calculated as CuO, %	28.0	31.8
Chromium, calculated as Cr <sub>2</sub> O <sub>3</sub> , %	63.3	68.2

3.2 The preservative or treating solution may be made up of water-soluble compounds selected from the following group:

Bivalent copper—for example, copper sulfate, basic copper carbonate, copper-oxide

Hexavalent chromium—for example, potassium or sodium dichromate, chromium trioxide

3.3 If dichromate is used as the principal source of chromium, either chromic acid or acetic acid may be used to adjust the pH of treating solution to conform to 3.4.

3.4 *pH*—The pH of a treating solution shall be not less than 2.0 nor more than 4.2.

## 4. Chemical Analysis

4.1 The material and its solutions shall be analyzed in accordance with Methods D 1627.

## 5. Keywords

5.1 acid copper chromate

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This specification is identical in substance with the Standards for Acid Copper Chromate (ACC) in Section 1 of the American Wood-Preservers' Association Standards for Water-Borne Preservatives (P5-83). Acknowledgment is made to the American Wood-Preservers' Association for its development of the subject matter covered in this specification.

<sup>2</sup> *Annual Book of ASTM Standards*, Vol 04.10.

<sup>3</sup> Available from American Wood-Preservers' Associations, 3246 Fall Creek Highway, Suite 190, Granbury, TX 76049.

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