



Standard Specification for Acid Copper Chromate¹

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 reapproval. 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 Chromate²

2.2 Other Standard:

AWPA P5 Standards for Waterborne Preservatives³

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 ₂ O ₃ , %	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

¹ This specification is under the jurisdiction of ASTM Committee D-7 on Wood and is the direct responsibility of Subcommittee D07.06 on Treatments for Wood Products.

Current edition effective Feb. 24, 1971. Originally issued 1959. Replaces D 1624 – 61 (1968).

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.

² Annual Book of ASTM Standards, Vol 04.10.

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

ASTM International takes no position respecting the validity of any patent rights asserted in connection with any item mentioned in this standard. Users of this standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, are entirely their own responsibility.

This standard is subject to revision at any time by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn. Your comments are invited either for revision of this standard or for additional standards and should be addressed to ASTM International Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. If you feel that your comments have not received a fair hearing you should make your views known to the ASTM Committee on Standards, at the address shown below.

This standard is copyrighted by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959, United States. Individual reprints (single or multiple copies) of this standard may be obtained by contacting ASTM at the above address or at 610-832-9585 (phone), 610-832-9555 (fax), or service@astm.org (e-mail); or through the ASTM website (www.astm.org).