



Standard Specification for Pressure Treatment of Timber Products¹

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1. Scope

1.1 This specification covers treatment of timber products by pressure processes in closed vessels with preservative materials and solutions.

1.2 This specification is divided into two general sections. Sections 1-9 cover requirements relating to all species and commodities, while Tables 1-7 show requirements relating to specific species and commodities. The purchaser should note that these individual requirements vary widely and, consequently, great care must be used in applying them in specific instances.

1.3 The values stated in inch-pound units are to be considered as standard.

2. Referenced Documents

2.1 ASTM Standards:

- D 347 Tables for Volume and Specific Gravity Correction for Creosote and Coal Tar²
- D 390 Specification for Coal-Tar Creosote for the Preservative Treatment of Piles, Poles, and Timbers for Marine, Land, and Fresh Water Use²
- D 391 Specification for Creosote-Coal Tar Solution²
- D 1272 Specification for Pentachlorophenol²
- D 1325 Specification for Ammoniacal Copper Arsenate and Ammoniacal Copper Zinc Arsenate²
- D 1326 Methods for Chemical Analysis of Ammoniacal Copper Arsenate and Ammoniacal Copper Zinc Arsenate²
- D 1624 Specification for Acid Copper Chromate²
- D 1625 Specification for Chromated Copper Arsenate²
- D 1627 Methods for Chemical Analysis of Acid Copper Chromate²
- D 1628 Test Methods for Chemical Analysis of Chromated Copper Arsenate²
- D 1858 Specification for Creosote-Petroleum Solution²

D 1860 Test Method for Moisture and Creosote-Type Preservative in Wood²

D 2085 Test Method for Determining Chloride Used in Calculating Pentachlorophenol in Solutions or Wood (Lime Ignition Method)²

D 2604 Specification for High-Boiling Hydrocarbon Solvent for Preparing Oil-Borne Preservative Solutions²

D 2605 Specification for Volatile Petroleum Solvent (LPG) for Preparing Pentachlorophenol Solutions²

D 3225 Specification for Low-Boiling Hydrocarbon Solvent for Oil-Borne Preservatives²

D 5584 Test Methods for Chemical Analysis of Ammoniacal Copper Quat Type B (ACQ-B)²

D 5653 Specification for Copper bis (Dimethyldithiocarbamate)²

D 5654 Specification for Ammoniacal Copper Quat Type B (ACQ-B)²

D 5655 Test Method for Analysis of Copper Dimethyldithiocarbamate (CDDC) Treated Wood by Colorimetry²

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *preservative materials and solutions*—materials that when injected into wood protect it from the destructive action of fungi, insects, and marine borers.

3.1.2 *timber products*—include round, sawn, and otherwise fabricated materials of various species. Examples are utility poles, piles, posts, crossties, lumber, timbers, glued laminated timbers, plywood, and so forth.

ALL TIMBER PRODUCTS

4. General Requirements

4.1 The following requirements, except as modified, or supplemented by Tables 1-7, for the various species and types of material, apply to each of the treating processes and to all species and types of material. If these requirements are to be otherwise modified to meet special conditions, complete detailed instructions shall be given by the purchaser or specifier.

4.1.1 Maximum time duration (total elapsed time of a treating phase), maximum temperature, and maximum pressure limits shall not be exceeded. A phase shall begin when a change in conditions within the cylinder is initiated and shall end when either new conditions are imposed, or the cylinder is emptied of preservative.

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

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Some requirements in this specification are similar to those in the Commodities Standards of the American Wood-Preservers' Association for treatment of timber products by pressure processes in closed vessels with preservative materials and solutions. Acknowledgment is made to the American Wood-Preservers' Association for its development of subject matter used in this specification.

² *Annual Book of ASTM Standards*, Vol 04.10.

