



Standard Specification for Calcium Hypochlorite¹

This standard is issued under the fixed designation E 1229; 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 technical-grade calcium hypochlorite in granular form.

1.2 The values stated in SI units are to be regarded as standard. The values given in parentheses are for information only.

1.3 Review the current Material Safety Data Sheets (MSDS) for detailed information concerning toxicity, first aid procedures, handling and safety precautions.

1.4 The following safety hazards caveat pertains only to the test methods listed in Sections 3-5. *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D 1921 Test Methods for Particle Size (Sieve Analysis) of Plastic Materials

D 2022 Test Methods of Sampling and Chemical Analysis of Chlorine-Containing Bleaches

2.2 *Other Documents:*

CFR 49, Parts 100 to 199, Department of Transportation, Rules and Regulations for the Transportation of Hazardous Materials³

Federal Specification PPP-C-2020A Chemicals, Liquid, Dry, and Paste, Packaging of (superseding PPP-C-2020)⁴

¹ This specification is under the jurisdiction of ASTM Committee E15 on Industrial and Specialty Chemicals and is the direct responsibility of Subcommittee E15.02 on Product Standards.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The Code of Federal Regulations may be obtained from the U.S. Government Printing Office, 732 N. Capitol St., NW, Washington, DC 20401, <http://www.gpoaccess.gov/CFR/index.html>.

3. Requirements

3.1 Technical-grade granular calcium hypochlorite shall conform to the following chemical and physical requirements:

		ASTM Test Methods
Available Chloride, % mass (m/m) (% by wt)	65.0 min	D 2022
Moisture, % mass (m/m) (% by wt)	5.5 to 10.0	D 2022
Particle Size, through U.S. 14 mesh, min %	75.0	D 1921
through U.S. 100 mesh, max %	10.0	D 1921
		(Method B)

4. Sampling

4.1 Sample technical-grade granular calcium hypochlorite in accordance with the appropriate section of Test Methods **D 2022**.

5. Test Methods

5.1 Test each composite sample for the chemical and physical requirements listed in Section 3.

6. Packaging and Labeling

6.1 Industrial or commercial quantities shall be packaged and labeled in accordance with DOT Hazardous Materials Regulations **CFR 49**, Parts 100 to 199, and state and local regulations.

6.2 When specified, Department of Defense procurements shall be packaged and labeled in accordance with the applicable paragraphs of **Federal Specification PPP-C-2020A**.

7. Keywords

7.1 calcium hypochlorite

*A Summary of Changes section appears at the end of this standard.

SUMMARY OF CHANGES

Committee E15 has identified the location of selected changes to this standard since the last issue (E 1229–93(2002)) that may impact the use of this standard.

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| <p>(1) Updated units of measure to comply with the International System of Units (SI).</p> <p>(2) Added subsection to Scope stating that the SI units are considered standard.</p> | <p>(3) Added Summary of Changes section.</p> <p>(4) Added safety and MSDS caveats.</p> |
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