



Standard Specification for Liquid Chlorine¹

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1. Scope

1.1 This specification covers industrial grade chlorine normally available as a liquid in pressurized metal containers.

2. Referenced Documents

2.1 ASTM Standards:

E 410 Test Method for Moisture and Residue in Liquid Chlorine²

E 1746 Test Method for Sampling and Analysis of Liquid Chlorine for Gaseous Impurities²

2.2 Federal Documents:

Federal Specification PPP-C-2020, Chemicals, Liquid, Dry, and Paste, Packaging of³

Title 49 CFR, Department of Transportation, Parts 100 to 199⁴

Title 40 CFR, Protection of the Environment, Parts 162 to 180⁴

Title 29 CFR, Labor, Part 1910.1200, New Requirements as to Container Labeling, Occupational Safety and Health

Administration (OSHA)⁴

3. Chemical Requirements

3.1 Liquid chlorine shall conform to the following requirements:

		ASTM Method
Gaseous impurities, % by vol	0.5 max	E 1746
Moisture, % by weight	0.015 max	E 410
Nonvolatile material, % by weight	0.015 max	E 410

4. Sampling

4.1 Sample liquid chlorine in accordance with the appropriate sections of Test Method E 1746.

5. Packaging and Package Marking

5.1 Package and label industrial and commercial quantities in accordance with Department of Transportation CFR Title 49 Part 100 to 199, and state and local regulations.

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

5.3 Label chlorine to be used as a pesticide in accordance with the applicable regulations of the Environmental Protection Agency as described in CFR Title 40, Parts 162 to 180.

5.4 Labeling also must comply with OSHA regulations described in CFR Title 29 Part 1910 and Section 1910.1200 as published in 48 Federal Register 53280.

6. Keywords

6.1 chlorine; liquid

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² Annual Book of ASTM Standards, Vol 15.05.

³ Single copies of Federal Specifications required for bidding purposes are available from General Services Administration Business Service Centers in Boston, New York, Washington, DC, Philadelphia, Atlanta, Chicago, Kansas City, MO, Fort Worth, Houston, San Francisco, Los Angeles, and Seattle, WA.

⁴ The Code of Federal Regulations may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

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