CAN/ULC 503:2025A

Standard for Carbon-Dioxide Fire Extinguishers

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CETTE NORME NATIONALE DU CANADA EST DISPONIBLE EN VERSIONS FRANÇAISE ET ANGLAISE

Standard for Carbon-Dioxide Fire Extinguishers, CAN/ULC 503

Fifth Edition, Dated October 21, 2025

Summary of Topics

This new Fifth Edition to CAN/ULC 503 dated October 21, 2025 incorporates editorial changes including renumbering and reformatting to align with current style, as well as the following changes in requirements:

– Revisions to Manual Section; 56.1, 56.2

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated March 28, 2025.

PLEASE NOTE THAT CERTAIN CODES MAY REFER TO A SUPERSEDED VERSION OF THIS STANDARD. IN THOSE INSTANCES, THE RELEVANT VERSIONS ARE AVAILABLE FOR PURCHASE.

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ULC Standards
Normes ULC

ULC Standards
CAN/ULC 503:2025A
Fifth Edition

ULSE Inc.
ANSI/UL 154
Tenth Edition

Standard for Carbon-Dioxide Fire Extinguishers

October 21, 2025

(Title Page Reprinted: October 21, 2025)

Approved American National Standard
ANSI

ANSI/UL 154-2025

NATIONAL STANDARD OF CANADA
STANDARDS COUNCIL OF CANADA
CONSEIL CANADIEN DES NORMES
NORME NATIONALE DU CANADA

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Commitment for Amendments

This Standard is issued jointly by ULSE Inc. (ULSE) and ULC Standards. Amendments to this Standard will be made only after processing according to the Standards writing procedures by ULSE and ULC Standards.

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Comments or proposals for revisions on any part of the Standard may be submitted at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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This ANSI/UL Standard for Safety consists of the Tenth Edition.

The most recent designation of ANSI/UL 154 as an American National Standard (ANSI) occurred on October 21, 2025. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page (front and back), or the Preface.

Comments or proposals for revisions on any part of the Standard may be submitted to ULSE at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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ULC Preamble

International Classification for Standards (ICS): 13.220.10

This Standard has been developed in compliance with the requirements of the Standards Council of Canada (SCC) for accreditation of a Standards Development Organization.

Attention is drawn to the possibility that some of the elements of this Canadian standard may be the subject of patents rights. ULC Standards shall not be held responsible for identifying any or all such patents rights.

Requests for interpretation of this Standard should be sent to ULC Standards. The requests should be worded in such a manner as to permit a “yes” or “no” answer based on the literal text of the requirement concerned.

The Fifth Edition National Standard of Canada was based on, and superseded, the Fourth Edition.

This CAN/ULC 503 Standard is under continuous maintenance, whereby each revision is approved in compliance with the requirements of ANSI and SCC for accreditation of a Standards Development Organization. In the event that no revisions are issued for a period of four years from the date of publication, action to revise, reaffirm, or withdraw the standard shall be initiated.

This Standard is intended to be used for conformity assessment.

ULC STANDARDS COMMITTEE ON PORTABLE FIRE EXTINGUISHERS

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L. Bourgeois	Tritop Inc	Supply Chain	Canada
G. Ferris	Protection R.T Inc.	Producer	Canada
B. Levitt	Levitt-Safety Ltd.	User	Canada
C. McLean	Midland Fire Department	Authorities Having Jurisdiction / Regulator	Ontario
G. Meek	Penhold Fire Department	Authorities Having Jurisdiction / Regulator	Alberta
J.R. Nerat	National Presto Industries Inc.	Producer	USA
K. Pate	Amerex Corporation	Producer	USA
D. Pelton	National Association of Fire Equipment Distributors (NAFED)	Supply Chain	USA
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D. Tiller	Office of the Fire Marshal	Authorities Having Jurisdiction / Regulator	Ontario
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N. Weeks	UL Standards & Engagement	Project Manager (Non-Voting)	USA

This list represents the membership at the time the Committee balloted on the final text of this edition. Since that time, changes in the membership may have occurred.

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ANNEX A (Normative) – FRENCH TRANSLATIONS OF REQUIRED MARKINGS

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Preface

This is the common ULSE and ULC Standard for Carbon-Dioxide Fire Extinguishers. It is the Fifth edition of CAN/ULC 503, and the Tenth edition of ANSI/UL 154.

This Joint Standard was prepared by UL Standards & Engagement Inc. (ULSE), ULC Standards, and the UL/ULC Extinguisher Technical Harmonization Committee.

This Standard was formally approved by the ULC Standards Committee on Portable Fire Extinguishers.

Only metric SI units of measurement are used in this Standard. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

Annex A is identified as Normative, as such, form a mandatory part of this Standard.

Note: Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.

Level of Harmonization

This Standard is published as an identical standard between ULSE and ULC Standards.

An identical standard is a standard that is the same in technical content except for conflicts in Codes and Governmental Regulations. Presentation shall be word for word except for editorial changes.

Interpretations

The interpretation by the standards development organization of an identical or equivalent standard shall be based on the literal text to determine compliance with the standard in accordance with the procedural rules of the standards development organization. If more than one interpretation of the literal text has been identified, a revision shall be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

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INTRODUCTION

1 Scope

1.1 These requirements cover the construction and performance, exclusive of performance during fire tests, of portable carbon-dioxide fire extinguishers. Carbon-dioxide fire extinguishers are intended to be utilized in accordance with the Standard for Portable Fire Extinguishers, NFPA 10 and the National Fire Code of Canada.

1.2 The requirements for performance during fire testing of carbon-dioxide fire extinguishers are specified in the Binational Standard for Rating and Fire Testing of Fire Extinguishers, UL 711 / ULC S508.

1.3 As used in these requirements, the term "extinguisher" refers to all extinguishers or any part thereof covered by these requirements, unless specifically noted otherwise.

2 Units of Measurement

2.1 The metric unit shall be designated as the official unit for purposes of this Standard. Where values of measurement are specified in both SI and English units, either unit is used. In cases of dispute, the metric unit shall be used.

3 Referenced Publications

3.1 Any undated reference to a code or standard appearing in the requirements of this Standard shall be interpreted as referring to the latest edition of that code or standard.

3.2 The following publications are referenced in this Standard:

ASTM B117, *Standard Practice for Operating Salt Spray (Fog) Testing Apparatus*

ASTM D2565, *Standard Practice for Operating Xenon Arc-Type (Water-Cooled) Light Exposure Apparatus with and without Water for Exposure of Plastics*

National Fire Code of Canada

NFPA 10, *Standard for Portable Fire Extinguishers*

UL 94, *Tests for Flammability of Plastic Materials for Parts in Devices and Appliances*

UL 157, *Gaskets and Seals*

UL 711, *Rating and Fire Testing of Fire Extinguishers*

UL 1439, *Test for Sharpness of Edges on Equipment*

ULC S508, *Rating and Fire Testing of Fire Extinguishers*

4 Components

4.1 Except as indicated in 4.2, a component of a product covered by this Standard shall comply with the requirements for that component. A component shall comply with both the ULSE Inc. and the ULC Standards for the component.

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