CAN/ULC 560:2021 (R2025)

Standard for High-Performance and Aviation Foam Liquid Concentrates

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The intended primary application of this standard is stated in its scope. It is important to note that it remains the responsibility of the user of the standard to judge its suitability for the particular application.

Copies of this National Standard of Canada may be ordered from ULC Standards.

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

Standard for High-Performance and Aviation Foam Liquid Concentrates, CAN/ULC 560

Third Edition, Dated May 25, 2021

Summary of Topics

This reaffirmation of CAN/ULC 560 dated December 9, 2025 is being issued to update the title page to reflect the reaffirmation of this Third Edition National Standard of Canada. No changes in requirements are involved.

Text that has been changed in any manner or impacted by ULSE's electronic publishing system is marked with a vertical line in the margin.

The requirements are substantially in accordance with Proposal(s) on this subject dated October 3, 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PLEASE NOTE THAT CERTAIN CODES MAY REFER TO A SUPERSEDED VERSION OF THIS STANDARD.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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CAN/ULC 560:2021 (R2025)

Standard for High-Performance and Aviation Foam Liquid Concentrates

ICS 13.220.10; 13.220.99

First Edition . . . . . September 1998
Second Edition . . . . . April 2006
THIRD EDITION . . . . . MAY 25, 2021
REAFFIRMED . . . . . DECEMBER 9, 2025

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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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PREFACE

This is the Third Edition of the Standard for High-Performance and Aviation Foam Liquid Concentrates, CAN/ULC 560.

This Edition of the Standard has been formally approved by the ULC Standards Committee on Fire Fighting Foams.

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

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.

This Third Edition National Standard of Canada is based on, and now supersedes, the Second Edition.

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

This CAN/ULC 560 Standard is under continuous maintenance, whereby each revision is approved in compliance with the requirements of 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.

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.

This Standard is intended to be used for conformity assessment.

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INTRODUCTION

1 Scope

1.1 This Standard refers to High-Performance and Aviation Foam Liquid Concentrates.

1.2 The foam liquid concentrate, at 1 %, 3 %, or 6 % dilution with fresh or sea water are intended primarily for use in aircraft rescue and firefighting vehicles (ARFF) but are also suitable for use in mobile, portable and fixed airfoam installations, including foam-water sprinkler systems which have been proven suitable to meet the requirements of the Standard for Foam Equipment and Liquid Concentrates, ULC 564, in surface extinguishment of fires involving ordinary hydrocarbon flammable liquids.

1.3 These requirements do not supersede requirements prescribed in legislation or regulation by the authority having jurisdiction.

1.4 The requirements for High-Performance and Aviation Synthetic Fluorine-Free Foam Liquid Concentrates are contained in CAN/ULC 563.

2 Components

2.1 A component of a product covered by this Standard shall:

a) Comply with the requirements for that component as specified in this Standard;

b) Be used in accordance with its rating(s) established for the intended conditions of use; and

c) Be used within its established use limitations or conditions of acceptability.

2.2 A component of a product covered by this Standard is not required to comply with a specific component requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product;

b) Is superseded by a requirement in this Standard; or

c) Is separately investigated when forming part of another component, provided the component is used within its established ratings and limitations.

2.3 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

2.4 A component that is also intended to perform other functions such as overcurrent protection, ground-fault circuit-interruption, surge suppression, any other similar functions, or any combination thereof, shall comply additionally with the requirements of the applicable UL standard(s) that cover devices that provide those functions.

3 Units of Measurement

3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

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4 Referenced Publications

4.1 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.

4.2 The following publications are referenced in this Standard:

APHA, Standard Methods for the Examination of Water and Wastewater

ASTM D445, Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)

ASTM D638, Standard Test Method for Tensile Properties of Plastics

ASTM D1141, Standard Practice for the Preparation of Substitute Ocean Water

ASTM D1177, Standard Test Method for Freezing Point of Aqueous Engine Coolants

ASTM D1193, Standard Specification for Reagent Water

ASTM D1298, Standard Test Method for Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method

ASTM D1331, Standard Test Methods for Surface and Interfacial Tension of Solutions of Paints, Solvents, Solutions of Surface-Active Agents, and Related Materials

ASTM D1693, Standard Test Method for Environmental Stress-Cracking of Ethylene Plastics

ASTM D1796, Standard Test Method for Water and Sediment in Fuel Oils by the Centrifuge Method (Laboratory Procedure)

ASTM E70, Standard Test Method for pH of Aqueous Solutions with the Glass Electrode

ASTM E527, Standard Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)

ASTM E729, Standard Guide for Conducting Acute Toxicity Tests on Test Materials with Fishes, Macroinvertebrates, and Amphibians

ASTM G155, Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials

ASTM D910, Standard Specification for Leaded Aviation Gasolines

NFPA 412, Standard for Evaluating Aircraft Rescue and Fire-Fighting Foam Equipment

CAN/ULC S514, Standard for Dry Chemical for Use in Hand and Wheeled Fire Extinguishers

CAN/ULC 563, Standard for High-Performance and Aviation Synthetic Fluorine-Free Foam Liquid Concentrates

ULC 564, Standard for Foam Equipment and Liquid Concentrates

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