CAN/ULC-S668-12 (R2024)

LINERS USED FOR SECONDARY CONTAINMENT OF ABOVEGROUND FLAMMABLE AND COMBUSTIBLE LIQUID TANKS

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Standard for Liners Used for Secondary Containment of Aboveground Flammable and Combustible Liquid Tanks, CAN/ULC-S668

First Edition, Dated April 1, 2012

Summary of Topics

This revision of CAN/ULC-S668 dated January 22, 2024 is being issued to update the title page to reflect the reaffirmation of this First 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 May 19, 2023.

PLEASE NOTE THAT CERTAIN CODES MAY REFER TO A SUPERSEDED VERSION OF THIS STANDARD.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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LINERS USED FOR SECONDARY CONTAINMENT OF ABOVEGROUND FLAMMABLE AND COMBUSTIBLE LIQUID TANKS

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NAME	AFFILIATION	CATEGORY	REGION
M. Beaulieu	Roth Industries, Inc	Producer	Québec
E. Bourassa	Granby Industries L P	Producer	Québec
T. Crimi	AC Consulting Solutions Inc.	General Interest	Ontario
C. Deschamps	Régie du Bâtiment du Québec	AHJ / Regulator	Québec
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W. Trussler	Ship's Point Consulting	User	British Columbia
L. Werner (Project Manager)	UL Standards & Engagement	Non-Voting	Ontario
J. Prusko (Project Manager)	UL Standards & Engagement	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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PREFACE

This is the First Edition of the Standard for Liners Used for Secondary Containment of Aboveground Flammable and Combustible Liquid Tanks, CAN/ULC-S668.

This Standard has been developed in compliance with the requirements of Standards Council of Canada (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.

All references to values of pressure and vacuum, unless otherwise indicated, shall be considered as “gauge”.

Appendices A and B, identified as informative, are for information and guidance purposes only.

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.

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-S668 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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1 SCOPE

1.1 This Standard sets forth minimum requirements for the material properties and performance of *liners* used for *secondary containment* under and around the area of tanks that are installed aboveground for the storage of *flammable liquids* and *combustible liquids*.

In addition to this Standard's traditional safety requirements for liners that primarily evaluate functional operation, structural integrity, and mitigate fire & environmental hazards from loss of liquid containment under expected normal conditions; optional construction and/or performance requirements, and associated ratings intended to address more severe conditions associated with the effects of Climate Change are included in Appendix B.

1.2 *Liners* used for *secondary containment* are intended for permanent installation to contain *spills* or *leakage* of product for a temporary period. In the event of *spills,* the removal and cleanup should be done within a period not exceeding 14 days.

NOTE 1: These *secondary containment liners* are not intended for long term or permanent storage of product *spills* or *leakage*. Adequate means of monitoring and cleanup is required along with proper use and installation in accordance with Codes and regulations of the *authority having jurisdiction*. Please see Clause 1.8.

NOTE 2: In case of product *spills* or *leakage*, the *secondary containment liners* shall be re-evaluated according to the requirements of the *authority having jurisdiction*.

1.3 A *secondary containment liner* is defined in this Standard as one of the following types:

A Reinforced coated fabrics or polymer films laminated onto textile substrates;

B Non-reinforced – polymer films or extruded polymeric panels; and

C Spray-on-type – *secondary containment liners* intended to be field installed using spray equipment and requiring geotextile or other substrate material for support.

1.4 A *secondary containment liner* similar to any of those described in Clause 1.3 may differ in design and construction as defined in Clause 1.3, provided it meets the requirements of this Standard.

1.5 *Secondary containment liners* shall be suitable for use as *secondary containment* under and around aboveground tanks, and shall be designated as Class IA, Class IP, Class IIP, or Class III, in accordance with the liquids they are intended to contain, as listed below. Each class of *secondary containment liners* shall be tested with the appropriate chemicals for that class as defined in TABLE 1.

A Class IA *secondary containment liners* shall be suitable for use with *flammable liquids*, *flammable liquids* containing ethanol or methanol , *combustible liquids* and *combustible liquids* containing up to 5% *biodiesel* (B5);

B Class IP *secondary containment liners* shall be suitable for use with petroleum derived *flammable liquids* and *combustible liquids*, (excluding oxygenated *fuels*) and *combustible liquids* containing up to 5% *biodiesel* (B5);

C Class IIP *secondary containment liners* shall be suitable for use with petroleum derived *combustible liquids* and *combustible liquids* containing up to 5% *biodiesel* (B5); and

D Class III *secondary containment liners* shall be suitable for use for the containment of a specific chemical to which the *secondary containment liner* is additionally tested to, and marked in accordance with Clause 6.3.

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1.6 These *secondary containment liners* are intended for use with *flammable liquids* and *combustible liquids* such as *fuel*, kerosene, lubricating oils, hydraulic oils and grease formulated in accordance with any one of the following documents:

A CAN/CGSB 3.18, Diesel Fuel for Locomotive – Type Medium – Speed Diesel Engines;

B CAN/CGSB 3.2, Heating Fuel Oil;

C CAN/CGSB 3.3, Kerosene;

D CAN/CGSB 3.5, Automotive Gasoline;

E CAN/CGSB 3.517, Automotive (On-road) Diesel Fuel;

F CAN/CGSB 3.520, Automotive Low-Sulphur Diesel Fuel Containing Low Levels of Biodiesel Esters (B1-B5);

G CAN/CGSB 3.6, Regular Sulphur Diesel Fuel;

H CAN/CGSB 5.511, Oxygenated Unleaded Automotive Gasoline Containing Ethanol;

I ANSI/ASTM D396, Standard Specification for Fuel Oils;

J ASTM D910, Standard Specification for Aviation Gasoline;

K ANSI/ASTM D975, Standard Specification for Diesel Fuel Oils;

L ASTM D1655, Standard Specification for Aviation Turbine Fuels;

M ASTM D2880, Standard Specification for Gas Turbine Fuel Oils;

N ANSI/ASTM D3699, Specification for Kerosene;

O ANSI/ASTM D4814, Standard Specification for Automotive Spark-Ignition Engine Fuel;

P ASTM D5797, Standard Specification for Fuel Methanol (M70-M85) for Automotive Spark-Ignition Engines;

Q ANSI/ASTM D5798, Standard Specification for Fuel Ethanol (Ed75-Ed85) for Automotive Spark Ignition Engines;

R ASTM D6227, Standard Specification for Grade 82 Unleaded Aviation Gasoline;

S ASTM D6448, Standard Specification for Industrial Burner Fuels from Used Lubricating Oils;

T ASTM D6751, Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels;

NOTE: Application of the ASTM D6751 fuel is only for Class III *secondary containment liners*.

U ASTM D6823, Standard Specification for Commercial Boiler Fuels With Used Lubricating Oils; and

V ASTM D7467, Standard Specification for Diesel Fuel Oil, Biodiesel Blend (B6 to B20).

1.7 These *secondary containment liners* may also be recognized by the *authority having jurisdiction* to be used with other products where the *secondary containment liners* have been investigated for such products.

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1.8 The installation, maintenance and operation of these *secondary containment liners* are not within the scope of this Standard, and shall be in accordance with, but not limited to, any of the following documents:

A National Fire Code of Canada;

B CCME Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products;

C Canadian Environmental Protection Act 1999;

D P.C. 2008-1048, Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations; and

E Regulations of the *authority having jurisdiction*.

1.9 Except for optional Climate Change Adaptation requirements in Appendix B, these requirements do not cover special evaluations for resistance to, or use after, earthquakes, floods, high wind events, or other natural disasters. These requirements do not cover resistance to vehicle impact of the earthen dike supporting the liner and vehicles driving on the liner.

NOTE: See the Note at the beginning of Appendix B for further information on the terms “Adaptation” and “Mitigation”, as they pertain to Climate Change.

1.10 Users of this Standard are advised that, notwithstanding the inclusion of performance requirements, test methods and marking requirements in this Standard for an ‘exposed’ product type, secondary containment liners that are within the scope of this Standard are considered by authorities having jurisdiction to be combustible materials. Consequently, authorities having jurisdiction will require that the liner be covered as part of the installation process, and that maintenance operations ensure that it is not exposed during service, at sites where these liners are used in Canada.

2 REFERENCE PUBLICATIONS

2.1 The documents shown below are referenced in the text of this Standard. Unless otherwise stated elsewhere in this Standard such reference shall be considered to indicate the edition and/or revisions of the document available at the date on which the Committee approved this ULC Standard.

Documents Published by the American Society for Testing and Materials (ASTM)
100 Barr Harbour Drive, PO Box C700, West Conshohocken, PA 19428-2959 U.S.A.
Telephone: (610) 832-9585
www.astm.org

• ANSI/ASTM D396 Rev B-2008, Standard Specification for Fuel Oils
• ASTM D471-2006, Standard Test Method for Rubber Property - Effect of Liquids
• ASTM D624-2000 (R2007), Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers
• ASTM D638-2008, Standard Test Method for Tensile Properties of Plastics
• ASTM D751-2006, Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Material
• ASTM D814-1995 (R2005), Standard Test Method for Rubber Property - Vapour Transmission of Volatile Liquids
• ASTM D910-2007 Rev A, Standard Specification for Aviation Gasoline
• ANSI/ASTM D975-2008 Rev A, Standard Specification for Diesel Fuel Oils
• ASTM D1004-2008, Standard Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheeting
• ASTM D1655-2008, Standard Specification for Aviation Turbine Fuels
• ASTM D2880-2003 (R2010), Standard Specification for Gas Turbine Fuel Oils

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• ANSI/ASTM D3699-2008, Standard Specification for Kerosene
• ASTM D4355-2007, Standard Test Method for Deterioration of Geotextiles by Exposure to Light, Moisture and Heat in a Xenon-Arc Type Apparatus
• ASTM D4533-2011, Standard Test Method for Trapezoid Tearing Strength of Geotextiles
• ASTM D4595-2009, Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method
• ANSI/ASTM D4814-2009, Specification for Automotive Spark-Ignition Engine Fuel
• ASTM D5322-1998 (R2009), Standard Practice for Laboratory Immersion Procedures for Evaluating the Chemical Resistance of Geosynthetics to Liquids
• ASTM D5797-2007, Standard Specification for Fuel Methanol (M70-M85) for Automotive Spark-Ignition Engines
• ANSI/ASTM D5798-2007, Standard Specification for Fuel Ethanol (Ed70-Ed85) for Automotive Spark-Ignition Engines
• ASTM D5983-2006 (R2011), Standard Specification for Methyl Tertiary-Butyl Ether (MTBE) for Downstream Blending for Use in Automotive Spark-Ignition Engine Fuel
• ASTM D6227-2010, Standard Specification for Grades UL82 and UL87 Unleaded Aviation Gasoline
• ASTM D6392-2008, Standard Test Method for Determining the Integrity of Nonreinforced Geomembrane Seams Produced Using Thermo-Fusion Methods
• ASTM D6448-2009, Standard Specification for Industrial Burner Fuels from Used Lubricating Oil
• ASTM D6497-2002 (R2010), Standard Guide for Mechanical Attachment of Geomembrane to Penetrations or Structures
• ASTM D6615-2011, Standard Specification for Jet B Wide-Cut Aviation Turbine Fuel
• ASTM D6751-2009, Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels
• ASTM D6823-2008, Standard Specification for Commercial Boiler Fuels with Used Lubricating Oils
• ASTM D7238-2006, Standard Test Method for Effect of Exposure of Unreinforced Polyolefin Geomembrane Using Fluorescent UV Condensation Apparatus
• ASTM D7467-2010, Standard Specification for Diesel Fuel Oil, Biodiesel Blend (B6 to B20)
• ASTM G160-2003 (R2009), Standard Practice for Evaluating Microbial Susceptibility of Nonmetallic Materials By Laboratory Soil Burial

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c/o Manitoba Statutory Publications, Lower Level, 200 Vaughan Street, Winnipeg, MB R3C 1T5
Telephone: (204) 945-4664

• CCME EPC-LST-61E, October 2003, Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products

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www.tpsgc-pwgsc.gc.ca/cgsb

• CAN/CGSB 3.18-2010, Diesel Fuel for Locomotive – Type Medium – Speed Diesel Engines
• CAN/CGSB 3.2-2011, Heating Fuel Oil
• CAN/CGSB 3.3-2007, Kerosene
• CAN/CGSB 3.5-2011, Automotive Gasoline
• CAN/CGSB 3.517-2007, Automotive (On-road) Diesel Fuel
• CAN/CGSB 3.520-2005, Automotive Low-Sulphur Diesel Fuel Containing Low Levels of Biodiesel Esters (B1-B5)
• CAN/CGSB 3.6-2010, Off-Road Diesel Fuel
• CAN/CGSB 5.511-2005, Oxygenated Unleaded Automotive Gasoline Containing Ethanol

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• Canadian Environmental Protection Act, 1999

• P.C. 2008-1048 / SOR 2008-197, Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations

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Publication Sales, Building M20, Montreal Road, Ottawa, ON K1A 0R6
Telephone: (613) 993-2463
www.nrc-cnrc.gc.ca

• National Fire Code of Canada 2010

Documents Published by SAE International, Society of Automobile Engineers
400 Commonwealth Drive, Warrendale, PA 15096-0001 U.S.A.
Telephone: (724) 776-4841

• SAE J2665-2006, Test Procedure to Measure the Fuel Permeability of Materials by the Cup Weight Loss Method

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3 GLOSSARY

NOTE: Terms used in this Standard that are in *italic* print are defined as follows:

3.1 *ASTM IRM 903 / IRM 903* – A high-swelling petroleum base oil described in ASTM D471, Standard Test Method for Rubber Property – Effect of Liquids.

3.2 *ASTM REFERENCE FUEL C* – A mixture of 50% Isooctane and 50% Toluene by volume.

3.3 *ASTM REFERENCE FUEL H* – A mixture of 85% ASTM REFERENCE FUEL C + 15% Anhydrous Denatured Ethanol by volume.

3.4 *AUTHORITY HAVING JURISDICTION* – The governmental body responsible for the enforcement of any part of this Standard or the official or agency designated by that body to exercise such a function.

3.5 *BIODIESEL* – A *biofuel* used as an alternative to petroleum-based diesel *fuel*. *Fuel* comprised of mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, designated as B100, and as defined in ASTM D6751.

3.6 *BIODIESEL BLEND* – Blend of *biodiesel fuel* with diesel *fuel* oils, abbreviated by BXX where XX represents the volume percentage of *biodiesel fuel* in the blend.

3.7 *BIOFUEL* – Solid, liquid or gaseous *fuel* obtained from cellulosic biomass resources, or relatively recently lifeless or living biological material. *Biofuels* include ethanol, *biodiesel* and methanol, and are normally used as *fuel* supplement to power vehicles or heat homes.

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