CAN/ULC-S142:2016-R2021
(Reaffirmed 2021)

STANDARD METHOD OF FIRE TEST FOR HEAT AND VISIBLE SMOKE RELEASE FOR DISCRETE PRODUCTS

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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 Method of Fire Test for Heat and Visible Smoke Release for Discrete Products, CAN/ULC-S142

First Edition, Dated September 1, 2016

Summary of Topics

This revision of CAN/ULC-S142 dated July 8, 2021 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 UL'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 April 23, 2021.

PLEASE NOTE THAT CERTAIN CODES MAY REFER TO A SUPERSEDED VERSION OF THIS STANDARD.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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STANDARD METHOD OF FIRE TEST FOR HEAT AND VISIBLE SMOKE RELEASE FOR DISCRETE PRODUCTS

ICS 13.220.40; 91.140.50; 91.140.60

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FIRST EDITION . . . . . **SEPTEMBER 2016**
REAFFIRMED . . . . . JULY 8, 2021

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PREFACE

This is the First Edition of the Standard Method of Fire Test for Heat and Visible Smoke Release for Discrete Products, CAN/ULC-S142.

This Edition of the Standard was developed by the ULC Standards Task Group on Combustibility and has been formally approved by the ULC Standards Committee on Fire Tests.

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.

Appendices A and B, identified as Normative, form a mandatory part of this Standard.

Appendix C, identified as Informative, is for information 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.

This First Edition National Standard of Canada is based on, and supersedes, the First Edition of ULC/ORD-C2043-00.

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-S142 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 On-Line Collaborative Standards Development System (CSDS) at https://csds.ul.com/canada.

This Standard is intended to be used for conformity assessment.

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1 SCOPE

1.1 This is a fire test method for determining the fire performance and smoke characteristics of discrete products (including but not limited to electrical and plumbing equipment). These products are subjected to an open flame ignition source and evaluated using a product calorimeter to determine the rate of heat release and the rate of smoke release of the burning product samples.

NOTE: Discrete products as used in this Standard refers to stand-alone, non-continuous product that are not installed in a continuous manner that could be tested in the tunnel equipment referenced in the Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies, CAN/ULC-S102. Examples of these types of products are speakers, valves, etc.

1.2 This test method does not provide information on the performance of products in other fire or test conditions. This test does not investigate the toxicity of the products of combustion.

1.3 This test does not cover the constructional, electrical, or other performance requirements of the product.

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.

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

• ASTM E800-14, Standard Guide for Measurement of Gases Present or Generated During Fires

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Documents Published by ULC Standards (prior to May, 2010, identified as Underwriters Laboratories of Canada)
171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada
Telephone: (416) 757-3611, ext. 61744; Fax (613) 231-5977, “ATTN: Publications”
E-mail: publications@ulc.ca
www.ulc.ca

• CAN/ULC-S102-10, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies

• CAN/ULC-S102.4-10, Standard Method of Test for Fire and Smoke Characteristics of Electrical Wiring, Cable and Non-Metallic Raceways

• CAN/ULC-S138:06-R2016 (Reaffirmed), Standard Method of Test for Fire Growth of Insulated Building Panels in a Full-Scale Room Configuration

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Other References

• Janssens, M., Measuring Rate of Heat Release in Full-Scale Fire Tests by Oxygen Consumption, Fire Technology, Vol. 27, August 1991, pp. 234-249.

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