



JOINT CANADA-UNITED STATES
NATIONAL STANDARD

ANSI/CAN/UL 8139:2020

STANDARD FOR SAFETY

Electrical Systems of Electronic Cigarettes and Vaping Devices



Standards Council of Canada
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National Standard of Canada

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UL Standard for Safety for Electrical Systems of Electronic Cigarettes and Vaping Devices, ANSI/CAN/UL 8139

First Edition, Dated April 27, 2018

Summary of Topics

The revision of ANSI/CAN/UL 8139 dated July 6, 2020 includes the following changes:

- Clarification to Section 7.2, Exception applies to Flammability and Mechanical RTI; [7.2](#), [28.2](#), [29.4](#), and [30.2](#)
- Clarification to 8.2, Electrochemical Corrosion; [8.2](#), [8.2A](#)
- Add Exception to [9.2](#) to address inadvertent shorting
- Clarification to Section [10.4](#) to indicate a charging interface needs to be tested
- Clarifications to [Table 17.1](#); [17.1](#), Section [31A](#)
- Correction of temperature in Section [22.4](#)
- Section [29.6](#), Clarifying the determination of voltage difference for the drop test
- Section [17.4](#), Removal of potentiometers from temperature measuring
- Addition of an alternative specification for cheesecloth; [17.10](#)
- Allowing more appropriate discharge test parameters for greater relevance to device parameters; [20.3](#)
- Clarification that single fault conditions do not apply to overload test; [25.3](#)
- Clarifications to [Table 26.2](#)
- Clarification to Section 26, Temperature Testing; [26.1](#), [26.2](#), [26.4](#), [26.6](#)
- Correction to venting test procedures; [31.1](#)
- Addition of performance-based marking durability test; [33.1](#), [33.1A](#)
- Clarification to markings and warnings; [33.7](#)
- Imbalanced charging clarifications; [22.2](#)

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 new and revised requirements are substantially in accordance with Proposal(s) on this subject dated October 25, 2019 and March 13, 2020.

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ANSI/CAN/UL 8139:2020

Standard for Electrical Systems of Electronic Cigarettes and Vaping Devices

First Edition

April 27, 2018

This ANSI/CAN/UL Safety Standard consists of the First Edition including revisions through July 6, 2020.

The most recent designation of ANSI/UL 8139 as an American National Standard (ANSI) occurred on July 6, 2020. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, Preface or SCC Foreword.

This standard has been designated as a National Standard of Canada (NSC) on July 6, 2020.

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Preface (UL)

This is the First Edition of the ANSI/CAN/UL 8139 Standard for Safety for Electrical Systems of Electronic Cigarettes and Vaping Devices.

UL is accredited by the American National Standards Institute (ANSI) and the Standards Council of Canada (SCC) as a Standards Development Organization (SDO).

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

This ANSI/CAN/UL 8139 Standard for Safety 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.

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.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <http://csds.ul.com>.

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This Edition of the Standard has been formally approved by the UL Standards Technical Panel (STP) on Electrical Systems of Electronic Cigarettes, STP 8139.

This list represents the STP 8139 membership when the final text in this standard was balloted. Since that time, changes in the membership may have occurred.

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This Standard is intended to be used for conformity assessment.

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 this particular application.

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