



JOINT CANADA-UNITED STATES
NATIONAL STANDARD

STANDARD FOR SAFETY

ANSI/CAN/UL-8139:2018, Electrical Systems of Electronic Cigarettes and Vaping Devices



ANSI/UL 8139-2018



Standards Council of Canada
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UL Standard for Safety for Electrical Systems of Electronic Cigarettes and Vaping Devices, UL 8139

First Edition, Dated April 27, 2018

Summary of Topics

The First Edition of the Standard for Electrical Systems of Electronic Cigarettes and Vaping Devices, UL 8139, has been issued.

The new requirements are substantially in accordance with Proposal(s) on this subject dated October 5, 2017 and December 22, 2017.

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ANSI/UL 8139-2018



APRIL 27, 2018

1

UL 8139

**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.

The most recent designation of ANSI/UL 8139 as an American National Standard (ANSI) occurred on April 27, 2018. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, Preface or SCC Foreword.

This standard has been approved as a National Standard of Canada (NSC) by the Standards Council of Canada (SCC).

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CONTENTS

Preface (UL)	5
--------------------	---

INTRODUCTION

1 Scope	8
2 Components	8
3 Units of Measurement	9
4 Undated References	9
5 Normative References	9
6 Glossary	11

CONSTRUCTION

7 Enclosures	14
8 Resistance to Corrosion	15
9 Current Carrying Parts	15
10 Power Supplies	15
11 Battery Compartments	16
12 Cells	16
13 Protection Against Accidental Activation	17
14 Venting Mechanism	17
15 Printed Wiring Boards	17
16 Protective Circuits and Controls	17

PERFORMANCE

17 General	18
18 Single Fault Conditions	20
19 Normal Charge Test	21
20 Normal Discharge Test	21
21 Forced-Discharge Test	22
22 Imbalanced Charging	22
23 Overcharge Test	23
24 Abnormal Charging Test	24
25 Short Circuit Test	25
26 Temperature Test	25
27 Continuous Operation	27
28 Water Exposure Test	27
29 Drop Test	27
30 Crush Resistance Test	28
31 Venting Test	28

RATINGS

32 General	28
------------------	----

MARKINGS

33 General	29
------------------	----

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INSTRUCTIONS

34 General	30
------------------	----

APPENDIX A (INFORMATIVE)**Safety Marking Translations**

A1 French Translations of Safety Markings	A1
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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 ANSI/CAN approved upon publication. If no revisions occur, the initiation of the review of this Standard will commence within 5 years of the date of publication.

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.

STP 8139 Membership

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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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INTRODUCTION

1 Scope

1.1 These requirements cover the battery-operated electrical systems that use consumables containing varying compositions of flavorings, propylene glycol, glycerin, and other ingredients, with or without nicotine, which is heated into an aerosol that the user inhales. Examples include but are not limited to vaporizers, vape pens, hookah pens, e-hookah, e-shisha, e-pipes, electronic cigarettes, e-cigarettes and electronic nicotine delivery systems (ENDS). These systems encompass their charging systems, components, parts and accessories.

1.2 These requirements do not cover the consumables, such as e-liquids and other inhaled aerosol substances, wicks, and other particulate matter inhaled during use, nor do they cover substances in the emissions from the operation of the devices.

NOTE For example, heavy metal emissions in the aerosol and environmental exposure.

1.3 These requirements do not consider the physiological effects of any consumable used with the devices.

2 Components

2.1 A component that is also intended to perform other functions shall comply additionally with the requirements of the applicable Standard(s) that cover devices that provide those functions.

2.2 A component shall be used in accordance with its rating established for the intended conditions of use.

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

- a) Is superseded by a requirement in this Standard; or
- b) Is separately investigated when forming part of another component, provided the component is used within its established rating and limitations.

2.4 Components not anticipated by the requirements of this Standard, not specifically covered by a component standard per 2.3, and which pose a potential risk of electric shock, fire or casualty hazard shall be additionally investigated. Reference to other product standards is appropriate where those standards anticipate normal and abnormal use conditions consistent with the application of this Standard.