



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
Conseil canadien des normes

[This is a preview. Click here to purchase the full publication.](#)

National Standard of Canada

A National Standard of Canada is a standard developed by a Standards Council of Canada (SCC) accredited Standards Development Organization, in compliance with requirements and guidance set out by SCC. More information on National Standards of Canada can be found at www.scc.ca.

SCC is a Crown corporation within the portfolio of Innovation, Science and Economic Development (ISED) Canada. With the goal of enhancing Canada's economic competitiveness and social well-being, SCC leads and facilitates the development and use of national and international standards. SCC also coordinates Canadian participation in standards development, and identifies strategies to advance Canadian standardization efforts.

Accreditation services are provided by SCC to various customers, including product certifiers, testing laboratories, and standards development organizations. A list of SCC programs and accredited bodies is publicly available at www.scc.ca.

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.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical photocopying, recording, or otherwise without prior permission of UL.

UL provides this Standard "as is" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for any purpose.

In no event will UL be liable for any special, incidental, consequential, indirect or similar damages, including loss of profits, lost savings, loss of data, or any other damages arising out of the use of or the inability to use this Standard, even if UL or an authorized UL representative has been advised of the possibility of such damage. In no event shall UL's liability for any damage ever exceed the price paid for this Standard, regardless of the form of the claim.

Users of the electronic versions of UL's Standards for Safety agree to defend, indemnify, and hold UL harmless from and against any loss, expense, liability, damage, claim, or judgment (including reasonable attorney's fees) resulting from any error or deviation introduced while purchaser is storing an electronic Standard on the purchaser's computer system.

No Text on This Page