



UL 60079-31:2025

(IEC 60079-31:2022, MOD)

STANDARD FOR SAFETY

Explosive Atmospheres – Part 31:
Equipment Dust Ignition Protection by
Enclosure "t"

UL Standard for Safety for Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure "t", UL 60079-31

Third Edition, Dated September 17, 2025

Summary of Topics

This Third Edition of ANSI/UL 60079-31 dated September 17, 2025 is an adoption of IEC 60079-31, Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure "t", (third edition, issued by IEC January 2022 and corrigendum 1 issued 2023) as a new IEC-based UL Standard, UL 60079-31 with US National Differences.

The requirements are substantially in accordance with Proposal(s) on this subject dated June 7, 2024, September 13, 2024 and April 25, 2025.

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ANSI/UL 60079-31-2025



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PREFACE

This is the harmonized CSA Group and ULSE standard for Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure "t". It is the third edition of CSA C22.2 No. 60079-31:25, and the third edition of UL 60079-31. This edition of CSA C22.2 No. 60079-31 supersedes the previous edition published in October 2015. This edition of UL 60079-31 supersedes the previous edition published in June 2015.

This harmonized standard is based on IEC Publication IEC 60079-31: Third edition Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure "t" issued January 2022. IEC 60079-31 is copyrighted by the IEC.

This harmonized standard was prepared by CSA Group and ULSE. The efforts and support of the Technical Harmonization Subcommittee, THC 79-31 on the Harmonization of Electrotechnical Standards of the Nations of the Americas (CANENA), are gratefully acknowledged.

This standard is considered suitable for use for conformity assessment within the stated scope of the standard.

This standard was reviewed by the CSA Integrated Committee on Hazardous Location Products, under the jurisdiction of the CSA Technical Committee on Industrial Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the CSA Technical Committee. This standard has been developed in compliance with the Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

Application of Standard

Where reference is made to a specific number of samples to be tested, the specified number is to be considered a minimum quantity.

Note: Although the intended primary application of this standard is stated in its scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

Level of Harmonization

This standard adopts the IEC text with national differences.

This standard is published as an identical standard for CSA Group and ULSE.

An identical standard is a standard that is exactly the same in technical content except for national differences resulting from conflicts in codes and governmental regulations. Presentation is word for word except for editorial changes.

All national differences from the IEC text are included in the CSA Group and ULSE versions of the standard. While the technical content is the same in each organization's version, the format and presentation may differ.

Reasons for Differences From IEC

Differences from the IEC are being added in order to address safety and regulatory situations present in the US and Canada.

Interpretations

The interpretation by the standards development organization of an identical or equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules of the standards development organization. If more than one interpretation of the literal text has been identified, a revision is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

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