

# TECHNICAL SPECIFICATION

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Explosive atmospheres – iTeh Standards  
Part 32-1: Electrostatic hazards, guidance  
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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
Fax: +41 22 919 03 00  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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**EXPLOSIVE ATMOSPHERES –****Part 32-1: Electrostatic hazards, guidance**

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Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC/TS 60079-32-1, which is a technical specification, has been prepared by IEC Technical Committee 31: Equipment for explosive atmospheres, and IEC Technical Committee 101: Electrostatics.

The text of this technical specification is based on the following documents:

|               |                  |
|---------------|------------------|
| Enquiry draft | Report on voting |
| 31/1033/DTS   | 31/1076/RVC      |

Full information on the voting for the approval of this technical specification can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 60079 series, under the general title *Explosive atmospheres*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

transformed into an International standard,  
reconfirmed,  
withdrawn,  
replaced by a revised edition, or  
amended.

A bilingual version of this publication may be issued at a later date.

[IEC TS 60079-32-1:2013](https://standards.iteh.ai/catalog/standards/iec/34deb2d5-8a31-49ed-9841-f5847440d1bb/iec-ts-60079-32-1-2013)

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## INTRODUCTION

This IEC Technical Specification is based on CENELEC TR 50404:2003, *Code of practice for the avoidance of hazards due to static electricity* and a number of other documents:

- from the UK: BS 5958, Parts 1 & 2:1991, *Control of undesirable static electricity*,
- from Germany: TRBS 2153:2009, *Preventing risks of ignition due to electrostatic charges*,
- from Shell International Petroleum: *Static electricity – Technical and safety aspects*,
- from the US: NFPA 77, *Recommended Practice on Static Electricity (2007)*,
- from Japan: JNIOOSH TR42, *Recommendations for Requirements for Avoiding Electrostatic Hazards in Industry (2007)*,
- from ASTM, EUROPIA, IEC, International chamber of shipping, ISO etc.

It gives the best available accepted state of the art guidance for the avoidance of hazards due to static electricity.

This document is mainly written for designers and users of processes and equipment, manufacturers and test houses. It can also be used by suppliers of equipment (e.g. machines) and flooring or apparel when no product family or dedicated product standard exists or where the existing standard does not deal with electrostatic hazards.

A second part, IEC 60079-32-2, *Electrostatic Hazards, Tests*, is under development.

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