

# Information on standards

As at: August 2023



THE STRONGEST LINK.  
01.08.2023  
Otto Walch

## Table of contents

1	Introduction .....	1
2	List of abbreviations .....	1
3	Current status of the series of standards relevant to explosion protection IEC 60079 and IEC 80079 .....	2
4	Overview of the active Working Groups of TC 31 .....	9

## 1 Introduction

On the occasion of the last IEC standards meeting of the Technical Committee TC 31, this document is intended to provide an overview of the current development of international standards in explosion protection. In addition to the ATEX directives, which are binding throughout the EU, these IEC standards form the most important basis for manufacturers of electrical and non-electrical equipment for use in potentially explosive atmospheres and for operators of systems in these areas.

## 2 List of abbreviations

AG	Advisory Group
AHG	Ad Hoc Working Group
CD	Committee Draft
CDV	Committee Draft for Voting
DC	Document for Comments
DTS	Draft Technical Specification
FDIS	Final Draft International Standard
MT	Maintenance Team
JWG	Joint Working Group
PT	Project Team
SC	Subcommittee
SD	Stability Date
SMB	Standard Management Board
TC	Technical Committee
WG	Working Group

## Information on standards

As at: August 2023



**THE STRONGEST LINK.**  
01.08.2023  
Otto Walch

### 3 Current status of the series of standards relevant to explosion protection IEC 60079 and IEC 80079

The documents listed below are distributed by the IEC to the national committees for revision of the current edition of the respective standard. Depending on the revision status of the document, the respective comments or votes are expected.

SMB decided in February 2023, all projects with a duration of more than 5 years will automatically be cancelled. If there is a need to continue this project, a new project has to be requested.

This is valid for the following projects:

TC/SC	Project Reference	Project Stage	Project start date	Pub target date
TC 31	IEC TS 60079-44 ED1	ADTS	2017-04-21	2025-11-30
TC 31	IEC 60079-2 ED7	PRVC	2018-07-10	2023-03-31
TC 31	IEC 62990-3 ED1	ACDV	2018-09-14	2023-12-31
TC 31	IEC 60079-45 ED1	CD	2018-03-30	2025-11-30
TC 31/SC 31M	ISO/IEC 80079-41 ED1	ACDV	2015-03-27	2024-05-31

Standard	Stability date	Current status
<b>IEC 60079-0:</b> 2017, Ed. 7; Explosive atmospheres - Part 0: Equipment - General requirements	2024	WG 22 is working on the received comments to edition 8. Following please find some important information: <ul style="list-style-type: none"> <li>The ambient temperature has to be listed in the future on all products.</li> <li>Electrostatics were discussed and the results will be included</li> </ul> The next document (second CD) will be issued after the next meeting in Melville in October / November 2023.
<b>IEC 60079-1:</b> 2014, Ed. 7; Explosive atmospheres - Part 1: Equipment protection by Flameproof Enclosures "d"	2024	The CD of Edition 8 was published in April 2023 and the comments will be discussed during the next meeting in Melville in October / November 2023.
<b>IEC 60079-2:</b> 2014, Ed. 6; Explosive atmospheres - Part 2: Equipment protection by Pressurized Enclosure "p"	2024	The CDV got voted positive and a lot of comments were received. As this project is one of the projects which got cancelled by the SMB decision (see above), a new project need to be requested and another CDV may be issued.
<b>IEC 60079-5:</b> 2015, Ed. 4; Explosive atmospheres - Part 5: Equipment protection by Powder Filling "q"	2027	The amendment 1 (insulation resistance test of the filling material and the opportunity to mark the products with "qb") got released in May 2022.
<b>IEC 60079-6:</b> 2020, Ed. 4; Explosive atmospheres - Part 6: Equipment protection by Liquid Immersion "o"	2025	Working Group TC 31 WG 43 "High voltages" developed the requirements for voltages higher than 15 kV. These were included in the standard as Annex D. The current valid version of this standard got released in 2020.

## Information on standards

As at: August 2023



**THE STRONGEST LINK.**  
01.08.2023  
Otto Walch

Standard	Stability date	Current status
<b>IEC 60079-7:</b> 2015, Ed. 5; Explosive atmospheres - Part 7: Equipment protection by Increased Safety "e"	2023	All comments were discussed and the CDV of edition 6 will be published. The comments will be discussed during the April meeting in 2024.
<b>IEC 60079-10-1:</b> 2020, Ed. 3; Explosive atmospheres - Part 10-1: Classification of areas - Explosive gas atmospheres	2025	Edition 3 of this standard was published in 2020. The work on the next edition got started in October 2022.
<b>IEC 60079-10-2:</b> 2015, Ed. 2; Explosive atmospheres - Part 10-2: Classification of areas - Explosive dust atmospheres	2025	The stability date got extended. Work on the third edition of this standard started in 2020.
<b>IEC 60079-11:</b> 2011, Ed. 7; Explosive atmospheres - Part 11: Equipment protection by Intrinsically Safety "i"	2028	IEC 60079-11, Ed. 7 was released in January 2023.
<b>IEC 60079-13:</b> 2017, Ed. 2; Explosive atmospheres - Part 13: Equipment protection by Pressurized Rooms	2024	For the preparation of 60079-13, Ed. 3 a CD will be send to the national committees. This includes incorporation of analyser houses from IEC 60079-16 to enable the withdrawal of IEC 60079-16.
<b>IEC 60079-14:</b> 2013, Ed. 5; Explosive atmospheres - Part 14: Electrical installations design, selection and erection	2024	The new version of this standard will be aligned to the IEC templates and will be separated in the following sections: <ul style="list-style-type: none"> <li>• Design</li> <li>• Selection</li> <li>• Erection and</li> <li>• Initial Inspection.</li> </ul> The CDV of edition 6 was send to the national committees in July 2023.
<b>IEC 60079-15:</b> 2017, Ed. 5; Explosive atmospheres - Part 15: Equipment protection by Type of protection "n"	2024	Currently there is a discussion of an annex "Dynamic testing of sealed units". The amendment to Edition 5 will be issued in 2023.
<b>IEC 60079-17:</b> 2013, Ed. 5; Explosive atmospheres - Part 17: Electrical installations inspection and maintenance	2023	The FDIS of 60079-17, Ed. 6 was released in July 2023.
<b>IEC 60079-18:</b> 2014, Ed. 4; Explosive atmospheres - Part 18: Equipment protection by Encapsulation "m"	2025	The CDV of Edition 5 will be issued in October 2023.
<b>IEC 60079-19:</b> 2019, Ed. 4; Explosive atmospheres - Part 19: Equipment repair, overhaul and reclamation	2024	The 4th edition of the standard was published in October 2019. Work on the new Ed. 5 started in May 2023.
<b>IEC 60079-25:</b> 2020, Ed. 3; Explosive atmospheres - Part 25: Intrinsically safe electrical systems	2025	Edition 3 of this standard was published in 2020.

## Information on standards

As at: August 2023



**THE STRONGEST LINK.**  
01.08.2023  
Otto Walch

Standard	Stability date	Current status
<b>IEC 60079-26:</b> 2021, Ed. 4; Explosive atmospheres - Part 26: Equipment with Equipment Protection Level (EPL) Ga	2024	Edition 4 of this standard was published in February 2021. There are some needs to align the scope of the new edition with the scope of the previous editions. Currently the MT is working on a new version of this standard.
<b>IEC 60079-28:</b> 2015, Ed. 2; Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation	2024	The MT discusses new measurement techniques for the measurement of: <ul style="list-style-type: none"> <li>• thermal ignition of particles by optical radiation</li> <li>• optical power and</li> <li>• irradiance.</li> </ul> The technical feasibility of the ignition tests will also be discussed. The Stability Date is extended to 2024.
<b>IEC 60079-29</b>	-	The New Project to issue IEC 60079-29-0 got approved by the national committees and the MT started to work on the 350 comments received. Additional the following 2 items are in the focus: <ul style="list-style-type: none"> <li>• Development of an Oxygen performance standard relevant to explosive atmospheres rather than workplace atmospheres.</li> <li>• Development of a Safety Monitor toxic gas performance standard relevant to explosive atmospheres and Health Monitor toxic gas perf. standard for workplace atmospheres.</li> </ul>
<b>IEC 60079-29-1:</b> 2016, Ed. 2; Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases	2024	Currently the national committees are asked to provide comments for the 3rd edition.
<b>IEC 60079-29-2:</b> 2015, Ed. 2; Explosive atmospheres - Part 29-2: Gas detectors - Selection, installation, use and maintenance of detectors for flammable gases and oxygen	2024	Currently the national committees are asked to provide comments for the 3rd edition.
<b>IEC 60079-29-3:</b> 2014, Ed. 1; Explosive atmospheres - Part 29-3: Gas detectors - Guidance on functional safety of fixed gas detection systems	2024	This standard is up to date. Currently, there are no activities.
<b>IEC 60079-29-4:</b> 2009, Ed. 1; Explosive atmospheres - Part 29-4: Gas detectors - Performance requirements of open path detectors for flammable gases	2024	This standard is up to date. Currently, there are no activities.

## Information on standards

As at: August 2023



**THE STRONGEST LINK.**  
01.08.2023  
Otto Walch

Standard	Stability date	Current status
<b>IEC/IEEE 60079-30-1:</b> 2015, Ed. 1; Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements	2024	The CD of the 2nd edition is currently being prepared. The European should try to exclude the IEEE in the title of this standard as well as the references to the North American standards. Because of the extensive number and complexity of the comments, the MT 60079-30 is completing drafts for a second CD.
<b>IEC/IEEE 60079-30-2:</b> 2015, Ed. 1; Explosive atmospheres - Part 30-2: Electrical resistance trace heating - Application guide for design, installation and maintenance	2024	The CD of the 2nd edition is currently being prepared. The European should try to exclude the IEEE in the title of this standard as well as the references to the North American standards. Because of the extensive number and complexity of the comments, the MT 60079-30 is completing drafts for a second CD.
<b>IEC 60079-31:</b> 2022, Ed. 3; Explosive atmospheres - Part 31: Part 31: Equipment dust ignition protection by enclosure “t”	2025	TC 31 decides to disband MT 60079-31. IEC 60079-31 Edition 3 was published. The work has been assigned to WG 28 for future editions and MT 60079-31 was disbanded. TC 31 decides to transfer existing members of MT 60079-31 to WG 28. TC 31 thanks the members of MT 60079-31 for their continued work in WG 28.
<b>IEC TS 60079-32-1:</b> 2013, Ed. 1; Explosive atmospheres - Part 32-1: Electrostatic hazards, guidance	2024	Work on the new edition got started.
<b>IEC 60079-32-2:</b> 2015, Ed. 1; Explosive atmospheres - Part 32-2: Electrostatics hazards – Tests	2024	Work on the new edition got started.
<b>IEC 60079-33:</b> 2012, Ed. 1; Explosive atmospheres - Part 33: Equipment protection by special protection ‘s’	2023	This IEC standard has been published in Europe as a Technical Report. Currently, more and more IECEx certificates are being issued where this IEC standard is named. MT will meet in October/November 2023 to work on the next edition of this standard.
<b>IEC 60079-35-1:</b> 2011, Ed. 1; Explosive atmospheres - Part 35-1: Caplights for use in mines susceptible to firedamp - General requirements - Construction and testing in relation to the risk of explosion	2024	This standard is up to date. Currently, there are no activities.
<b>IEC 60079-35-2:</b> 2011, Ed. 1; Explosive atmospheres - Part 35-2: Caplights for use in mines susceptible to firedamp - Performance and other safety- related matters	2024	This standard is up to date. Currently, there are no activities.

## Information on standards

As at: August 2023



**THE STRONGEST LINK.**  
01.08.2023  
Otto Walch

Standard	Stability date	Current status
<b>IEC TS 60079-39:</b> 2015, Ed. 1; Explosive atmospheres - Part 39: Intrinsically safe systems with electronically controlled spark duration limitation	2030	The stability date of this Technical Specification got extended to 2030. There are no activities.
<b>IEC TS 60079-40:</b> 2015, Ed. 1; Explosive atmospheres - Part 40: Requirements for process sealing between flammable process fluids and electrical systems	2024	This TS was created by WG 30. The certificates issued in accordance with this standard will be used as the basis for the new edition. The appropriate steps will be taken soon. See also WG 30.  The sealing concepts in IEC 60079-1, IEC 60079-2, IEC 60079-26, and IEC TS 60079-40 got aligned by TC31 AHG 57.
<b>IEC TS 60079-42:</b> 2019, Ed. 1; Explosive atmospheres - Part 42: Electrical safety devices for the control of potential ignition sources for Ex-Equipment	2024	WG 42 started to work on the next edition. IEC 60079-42 will be a standard. This standard should replace EN 50495. See WG 42. The marking according to this standard may introduce a new Type of Protection.  The CD was sent to the national committees in 2023 and all the comments will be discussed during the April meeting in 2024.
<b>IEC TS 60079-43:</b> 2017, Ed. 1; Explosive atmospheres - Part 43: Equipment in adverse service conditions	2023	The next edition of IEC TS 60079-43 will be published as a standard entitled "Guidance on equipment intended for use in adverse environmental service conditions". Besides the requirements for extremely cold operating conditions (arctic), extremely warm operating conditions (desert) and high humidity conditions will also be considered.
<b>IEC PT 60079-44:</b> Personal Competence	-	The DTS was sent to the national committees in July 2023.
<b>IEC PT 60079-45:</b> Electrical Ignition Systems for Internal Combustion Engines	-	As this project got cancelled automatically (see SMB decision above), a new project need to be requested.
<b>IEC TS 60079-46:</b> 2017 Ed. 1 Explosive atmospheres - Part 46: Equipment assemblies	2024	The first edition was published in 2017. The next edition will be an IEC standard and the work on the first edition of IEC 60079-46 started in 2021. At the end of 2022 or early 2023 IEC 60079-46: CD Ed. 1 will be circulated to the national committees for comments. As a result of the planned meeting in October / November 2023 a second CD will be issued.
<b>IEC TS 60079-47:</b> 2017 Ed. 1 Explosive atmospheres - Part 47: Equipment protection by 2-wire intrinsically safe ethernet concept (2-WISE)	2023	Edition 1 of this Technical Specification was released in 2021.

## Information on standards

As at: August 2023



THE STRONGEST LINK.  
01.08.2023  
Otto Walch

Standard	Stability date	Current status
<b>IEC TS 60079-48:</b> Explosive atmospheres - Part 48 - Portable or Personal Electronic Equipment – Guide for the use of equipment without a certificate for use in Hazardous Areas		The first edition of this TS got released in July 2023. This TS got issued by TC31 SC31J WG 2.
<b>ISO/IEC 80079-20-1:</b> 2017, Ed. 1 Explosive atmospheres - Part 20-1: Material characteristics for gas and vapour classification - Test methods and data	2025	This standard originated from IEC 60079-20-1, which was distributed in 2017. During this change of name, only editorial changes were made.
<b>ISO/IEC 80079-20-2:</b> 2016, Ed. 1; Explosive atmospheres - Part 20-2: Material characteristics - Combustible dusts test methods	2025	It is currently being examined whether the scope of this standard should be extended to include ISO 6184-1 "Explosion protection systems - Part 1: Determination of explosion indices of combustible dusts in air" or EN 14034 "Determination of explosion characteristics of dust clouds - Part 1: Determination of maximum explosion pressure $p_{max}$ of dust clouds".
<b>ISO/IEC 80079-34:</b> 2018, Ed. 2; Explosive atmospheres - Part 34: Application of quality management systems for Ex Product manufacture	2025	In this new edition, the requirements for the testing of the different types of protection have been detailed. IEC 80079-34 was adapted to the new edition of ISO 9001:2015. MT 80079-34 met in October 2022 to start to work on Edition 3.
<b>ISO 80079-36:</b> 2016, Ed.1 Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements	2025	The requirements currently contained in both, IEC 60079-0 and ISO 80079-36 will be deleted from the new edition of ISO 80079-36. The next steps according to this standard will be discussed in 2022. Responsible for the maintenance of this standard is TC31 SC31M WG 1.
<b>ISO 80079-37:</b> 2016, Ed. 1; Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"	2025	The next steps according to this standard will be discussed in 2022. Responsible for the maintenance of this standard is TC31 SC31M WG 1.
<b>ISO/IEC 80079-38:</b> 2016, Ed. 1; Explosive atmospheres - Part 38: Equipment and components in explosive atmospheres in underground mines	2024	The new edition is intended to illustrate the possibility of using this standard for certification purposes. New member were requested for this purpose. A first draft has been prepared addressing the main issue of non-mandatory requirements in the body of the standards. Some of these have been changed to mandatory, but most have been moved in an informative annex. This will be discussed during the next MT meeting.



## Information on standards

As at: August 2023



THE STRONGEST LINK.

01.08.2023

Otto Walch

Standard	Stability date	Current status
<b>ISO PT 80079-41:</b> Development of ISO/IEC 80079-41/Ed1: Explosive atmospheres - Part 41: Reciprocating internal combustion engines	-	This Technical Specification is currently being developed. The CDV will be issued and sent to the national committees for comment early 2023..
<b>ISO/IEC PT 80079-49:</b> Flame arresters — Performance requirements, test methods and limits for use	-	A new standard will be issued by TC31 SC31M WG 2.
<b>ISO/IEC PT 80079-50:</b> Explosion venting devices	-	The project team will start to work on this new standard. The first CD of ISO/IEC 80079-50, Ed. 1 will be released after the next PT meeting in March 2023.



# Information on standards

As at: August 2023



THE STRONGEST LINK.  
01.08.2023  
Otto Walch

## 4 Overview of the active Working Groups of TC 31

The following table gives an overview of the active Working Groups of TC 31 with their current work contents.

Team	Current work status
<b>TC 31</b> Equipment for explosive atmospheres	To prepare and maintain international standards relating to equipment for use where there is a hazard due to the possible presence of explosive atmospheres of gases, vapours, mists or combustible dusts. Chair: Dr. Martin Thedens, DE Vice Chair: Jason Wigg, AU Vice Chair: Brad Zimmermann, US Secretary: Tom Stack, UK
<b>SC 31G:</b> Intrinsically-safe apparatus	Responsible for all "intrinsically safe" issues and standards IEC 60079-11, IEC 60079-25, IEC TS 60079-39, SC 31G WG 4 and the new PT 60079-47. Chair: Günter Gabriel, DE Secretary: Nicholas Ludlam, GB Assistant Secretary: Tom Stack, UK
<b>SC 31G WG 4:</b> Spark test apparatus	Inspection of the spark test apparatus and development of an electronic solution.
<b>SC 31J:</b> Classification of hazardous areas and installation requirements	Responsible for the "operator issues" and standards IEC 60079-10-1, IEC 60079-10-2, IEC 60079-13, IEC 60079-14, IEC 60079-17, IEC 60079-19, SC 31J WG 1 and SC 31J WG 2. Chair: Neil Denis, AU Secretary: Marino Kelava, KR Assistant Secretary: Berislav Prpic, KR
<b>SC 31J WG 1:</b> Electrical installations design, selection, erection and inspection in underground mines susceptible to firedamp	Depending on the development of IEC 60079-14. There has been no activity for WG1 yet. The work will commence after IEC 60079-14 FDIS for Ed.6 is released.
<b>SC 31J WG 2:</b> Portable and personal equipment	Comparable with TC 31 AG 49, but focuses on operator demands. The WG issued a new Technical Specification IEC TS 60079-48: "Explosive atmospheres - Part 48 - Portable or Personal Electronic Equipment – Guide for the use of equipment without a certificate for use in Hazardous Areas" in July 2023.
<b>SC 31M:</b> Non-electrical equipment and protective systems for explosive atmospheres	Responsible for the "non-electrical (mechanical)" part of the equipment and standards ISO/IEC 80079-20-1, ISO/IEC 80079-20-2, ISO/IEC 80079-34, ISO/IEC 80079-38, IEC 80079-41 and SC 31M WG 1 with standards ISO 80079-36 and ISO 80079-37. Chair: Thierry Houeix, FR Secretary: Anke Sachtleben, DE

## Information on standards

As at: August 2023



**THE STRONGEST LINK.**  
01.08.2023  
Otto Walch

Team	Current work status
<b>SC 31M WG 1:</b> Requirements for installation, maintenance, repair, overhaul and reclamation of non-electrical equipment as well for the standards ISO 80079-36 and ISO 80079-37	This working group has 2 main tasks: <ul style="list-style-type: none"> <li>• to list the requirements which can be required for installation, maintenance, repair, overhaul and reclamation of non-electrical equipment</li> <li>• the maintenance of the ISO 80079-36 and -37</li> </ul>
<b>SC 31M WG 2:</b> Performance requirements, test methods and limits for use for flame arresters	This WG will issue a new standard ISO/IEC PT 80079-49: Flame arresters — Performance requirements, test methods and limits for use. See ISO/IEC PT 80079-49. ISO/IEC 80079-49 Ed. 1, CDV was send to the national committees for comments in September 2022.
<b>TC 31 AG 36:</b> Chairman's Advisory Group	This group usually meets in the first TC 31 meeting of the year and makes recommendations. These recommendations will be used as basis for the decisions made by the plenary meeting of TC 31 (second meeting of the year).
<b>TC 31 AG 49:</b> Portable and personal Equipment. It is examined whether certain requirements have to be defined for portable or personal equipment for use in hazardous areas.	Here, requirements for portable and personal devices are to be developed, which are then to be used in the various types of protection. There will be 2 actions: <ol style="list-style-type: none"> <li>1. Modification of requirements for the impact test in IEC 60079-0</li> <li>2. Implementation of Functional Safety methodology into specific Types of Protection</li> </ol>
<b>TC 31 AG 55</b>	The scope will be revised to To review and identify references to Specific Conditions of Use in the IEC 60079 and ISO/IEC 80079 series and to maintain a list of Specific Conditions of Use. To provide support and guidance to other TC 31 groups on the development of requirements for Specific Conditions of Use.
<b>TC 31 AHG 56:</b> Different dielectric strength and insulation resistance tests in 60079-5, 60079-7, 60079-11, 60079-15, and 60079-18	TC 31 decides to disband ahG 56. TC 31 thanks the members of that group for their work. The convenor of MT 60079-18 will prepare a summary report of the work.
<b>TC 31 AHG 57:</b> Alignment of sealing concepts in IEC 60079-1, IEC 60079-2, IEC 60079-26, and IEC TS 60079-40	TC 31 thanks AHG 57 for their recommendations and disbands the ahG. TC 31 recommends that MT 60079-26 considers the recommendations provided by this AHG.
<b>TC 31 AHG 58:</b> "ec" Ex Equipment enclosures	To coordinate the equipment requirements in IEC 60079-7 and the installation requirements in IEC 60079-14 for "ec" Ex Equipment enclosures, partially enclosed Ex Equipment, and their assembly and marking. This AHG will meet the first time in October 2022 and got asked to continue to work on their task and report to the next TC 31 Plenary in November 2023.
<b>TC 31 EG</b> Editing Group	The new issued standards will be aligned with the IEC rules.
<b>TC 31 JWG 29:</b> Electrostatics, linked to TC 101	This JWG is also active in the development of the IEC 60079-32 series. It ensures that the concerns of TC 101 are taken into account when preparing the IEC 60079-32 standards and vice versa, the TC 31 requirements in TC 101.

## Information on standards

As at: August 2023



**THE STRONGEST LINK.**  
01.08.2023  
Otto Walch

Team	Current work status
<b>TC 31 JWG 45:</b> Toxic gas detection for workplace atmospheres linked to ISO/TC 146/SC 2	This JWG is also active in the development of the IEC 60079-29 series. It ensures that the concerns of TC 146 are taken into account in the preparation of the IEC 60079-29 standards and vice versa, the TC 31 requirements in TC 146.
<b>TC 31 JWG 50:</b> Liaison with IECEx	The cooperation between TC 31 and IECEx has been extended. It is ensured that those responsible for the relevant standard are always informed / consulted by IECEx. The chairman of this Working Group must be involved in all activities of this kind of IECEx. TC 31 appoints Tim Krause as the outgoing liaison officer to IECEx.
<b>TC 31 WG 22:</b> Responsible for MT 60079-0; MT 60079-5; MT 60079-6; maintenance of IEC 60050.426 and other specific tasks assigned by TC 31	MT 60079-0; MT 60079-5 and MT 60079-6, see above. The 3rd edition of the IEC 60050-426 dictionary is currently being prepared. Care must be taken here to ensure that all definitions of the different standards that are used are incorporated and harmonized.
<b>TC 31 WG 27:</b> Electric Machines (motors and generators)	In this group, the requirements for electric drive machines and generators are discussed and passed on to the respective standards committees. The convenor of the WG is Lorenz Geyer, DE.
<b>TC 31 WG 28:</b> Dusts + MT 60079-31	TC 31 decides to disband MT 60079-31. IEC 60079-31 Edition 3 has now been published and the work has been assigned to WG 28 for future editions. TC 31 decides to transfer existing members of MT 60079-31 to WG 28. TC 31 thanks the members of MT 60079-31 for their continued work in WG 28.
<b>TC 31 WG 30:</b> Process Sealing	This WG has created the IEC TS 60079-40 and uses the certificates created according to this standard as the basis for the new edition. See also TS 60079-40.
<b>TC 31 WG 31:</b> Gas/dust hybrid mixtures	Currently, the requirements for the use of devices in hybrid mixtures cannot be standardized. Their development will be monitored.
<b>TC 31 WG 32:</b> Creepage and clearance distances	Once again the necessity is discussed whether the Pollution Degree and the Overvoltage Category are relevant for the development and selection as part of the TC 31 standards and should be included. TC 31 confirmed Thomas Paul (DE) and Dorin Stochitoiu (CA) as Convenor and Co Convenor of WG32.
<b>TC 31 WG 37:</b> Electrochemical cells and batteries in equipment for explosive atmospheres	Batteries can be used in several types of protection. As the technical development of these batteries is very fast moving, this group monitors the use of batteries and provides input for the development of type of protection standards. The main discussion topic is the possible use of high capacity rechargeable Li-ion batteries in hazardous areas, e.g. in industrial trucks, including the risks associated with the use of rechargeable Li-ion batteries and which possibilities are given to minimise them. Another topic is the function and safety of battery management systems (BMS) and chargers.

## Information on standards

As at: August 2023



THE STRONGEST LINK.  
01.08.2023  
Otto Walch

Team	Current work status
<b>TC 31 WG 39:</b> Adverse service conditions	Technical Specification IEC TS 60079-43 prepared by the Working Group is to be published in the next edition as a standard entitled "Guidance on equipment intended for use in adverse environmental service conditions".
<b>TC 31 WG 40:</b> Luminaires	There are several types of protection according to which luminaires can be developed and certified. In order to harmonize the product-specific requirements in all standards, this WG brings together the necessary requirements for the different types of protection. Luminaire related comments on IEC 60079-0 and IEC 60079-7 were prepared. Progress on the industrial standard for LED light sources is monitored.
<b>TC 31 WG 42:</b> Safety Devices Related to Explosion Risk	IEC TS 60079-42 was created by this group. See IEC TS 60079-42.
<b>TC 31 WG 43:</b> High Voltages	This Working Group issued the amendment to IEC 60079-6 for voltages higher than 15 kV in the Ex area. See also IEC 60079-6.
<b>TC 31 WG 47:</b> Gc Equipment	This Working Group is working on ensuring that the requirements for Gc devices (Zone 2 devices) are uniform in all type of protection standards.
<b>TC 31 WG 54:</b> Basic Safety Publication	This document is currently being prepared and will probably be published in 2023 (formerly TC31 AHG 51).