

TC31 publications generated on 2024-04-03						
Reference	Edition	Corrigenda/IS	Date	Title	Language	Description
IEC 60079:2024 SER	Edition 1.0		2024-02-28	Explosive atmospheres - ALL PARTS	EN-FR	<p>A 15% discount of the total catalogue price is included.
This pack contains the following:
IEC 60079-0:2017 RLV
IEC 60079-1:2014 RLV
IEC 60079-2:2014 RLV
IEC 60079-5:2015+AMD1:2022 CSV
IEC 60079-6:2015+AMD1:2020 CSV
IEC 60079-7:2015+AMD1:2017 CSV
IEC 60079-10-1:2020 CMV
IEC 60079-10-2:2015 RLV
IEC 60079-11:2023
IEC 60079-13:2017
IEC 60079-14:2013
IEC 60079-15:2017 RLV
IEC TR 60079-16:1990
<a href="https://webstore.iec.ch/publication/901</p>

IEC TS 60079-44:2023	Edition 1.0		2023-11-28	Explosive atmospheres - Part 44: Personal competence	EN	<p><!-- NEW -->IEC 60079-0:2017 is also available as a href="https://webstore.iec.ch/publication/62232">IEC 60079-0:2017 RLV which contains the International Standard and its Redline version, showing all changes of the technical content compared to the previous edition.

 IEC 60079-0:2017 specifies the general requirements for construction, testing and marking of Ex Equipment and Ex Components intended for use in explosive atmospheres. The standard atmospheric conditions (relating to the explosion characteristics of the atmosphere) under which it may be assumed that Ex Equipment can be operated are:
 - temperature -20 °C to +60 °C;
 - pressure 80 kPa (0,8 bar) to 110 kPa (1,1 bar); and
 -air with normal oxygen content, typically 21 % v/v.
 This part of IEC 60079 and other standards supplementing this standard specify additional test requirements for Ex Equipment operating outside the standard temperature range, but further additional consideration and additional testing may be required for Ex Equipment operating outside the standard atmospheric pressure range and standard oxygen content. Such additional testing may be particularly relevant with respect to Types of Protection that depend on quenching of a flame such as "flameproof enclosures "d" (IEC 60079-1)</p>
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IEC 60079-31:2022/COR1:2023	Edition 3.0	1	2023-10-31	Corrigendum 1 - Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"	EN-FR	IEC 60079-0:2017 RLV contains both the official IEC International Standard and its Redline version. The Redline version is available in English only and provides you with a quick and easy way to compare all the changes between the official IEC Standard and its previous edition. IEC 60079-0:2017 specifies the general requirements for construction, testing and marking of Ex Equipment and Ex Components intended for use in explosive atmospheres. The standard atmospheric conditions (relating to the explosion characteristics of the atmosphere) under which it may be assumed that Ex Equipment can be operated are: -temperature -20 °C to +60 °C; -pressure 80 kPa (0,8 bar) to 110 kPa (1,1 bar); and -air with normal oxygen content, typically 21 % v/v. This part of IEC 60079 and other standards supplementing this standard specify additional test requirements for Ex Equipment operating outside the standard temperature range, but further additional consideration and additional testing may be required for Ex Equipment operating outside the standard atmospheric pressure range and standard oxygen content. Such additional testing may be particularly relevant with respect to Types of Protection that depend on quenching of a flame such as "flameproof enclosures "d" (IEC 60079-1) or limitation of energy, "intrinsic safety "i""
IEC 60079-5:2015+AMD1:2022 CSV	Edition 4.1		2022-05-12	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"	EN-FR, EN	
IEC 60079-5:2015/AMD1:2022	Edition 4.0		2022-05-12	Amendment 1 - Explosive atmospheres - Part 5: Equipment protection by powder filling "q"	EN-FR, EN	<!-- NEW -->
IEC 60079-31:2022	Edition 3.0		2022-01-17	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"	EN-FR	<!-- NEW -->

IEC 60079-31:2022 RLV	Edition 3.0		2022-01-17	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"	EN	<p>IEC 60079-1:2014 is available as https://webstore.iec.ch/publication/22247> IEC 60079-1:2014 RLV which contains the International Standard and its Redline version, showing all changes of the technical content compared to the previous edition.</p> <p>IEC 60079-1:2014 contains specific requirements for the construction and testing of electrical equipment with the type of protection flameproof enclosure "d", intended for use in explosive gas atmospheres. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this standard conflicts with a requirement of IEC 60079-0, the requirement of this standard will take precedence. This seventh edition cancels and replaces the sixth edition, published in 2007, and constitutes a technical revision. The numerous changes are identified in the Foreward of the document. Keywords: flameproof enclosure "d", explosive gas atmospheres</p> <p>The contents of the corrigendum of June 2018 and Interpretation sheet of May 2020 have been included in this copy.</p>
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IEC 62990-2:2021	Edition 1.0		2021-06-04	Workplace atmospheres - Part 2: Gas detectors - Selection, installation, use and maintenance of detectors for toxic gases and vapours	EN-FR, EN, ES	IEC 60079-1:2014 RLV contains both the official IEC International Standard and its Redline version. The Redline version is available in English only and provides you with a quick and easy way to compare all the changes between the official IEC Standard and its previous edition. IEC 60079-1:2014 contains specific requirements for the construction and testing of electrical equipment with the type of protection flameproof enclosure "d", intended for use in explosive gas atmospheres. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this standard conflicts with a requirement of IEC 60079-0, the requirement of this standard will take precedence. This seventh edition cancels and replaces the sixth edition, published in 2007, and constitutes a technical revision. The numerous changes are identified in the Foreward of the document. Keywords: flameproof enclosure "d", explosive gas atmospheres The contents of the corrigendum of June 2018 and Interpretation sheet of May 2020 have been included in this copy.
IEC 60079-26:2021	Edition 4.0		2021-02-25	Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection	EN-FR	
IEC 60079-1:2014/ISH1:2020	Edition 7.0	1	2020-05-28	Interpretation sheet 1 - Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"	EN	

IEC 60079-29-1:2016+AMD1:2020 CSV	Edition 2.1		2020-03-24	Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases	EN-FR	<p>IEC 60079-2:2014 is available as https://webstore.iec.ch/publication/22250 IEC 60079-2:2014 RLV which contains the International Standard and its Redline version, showing all changes of the technical content compared to the previous edition.</p> <p>IEC 60079-2:2014 contains the specific requirements for the construction and testing of electrical equipment with pressurized enclosures, of type of protection "p", intended for use in explosive gas atmospheres or explosive dust atmospheres. It also includes the requirements for pressurized enclosures containing a limited release of a flammable substance. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this standard conflicts with a requirement of IEC 60079-0, the requirements of this standard take precedence. This standard does not include the requirements for:</p> <ul style="list-style-type: none"> - pressurized enclosures where the containment system may release air with an oxygen content greater than normal, or oxygen in combination with inert gas where the oxygen is in a proportion greater than 21 %; - pressurized rooms or analyser houses; see IEC 60079-13; - pressurized enclosures used where "explosives" or pyrotechnics are present; - pressurized enclosures used where hybrid mixtures of gas/vapour and
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IEC 60079-29-1:2016/AMD1:2020	Edition 2.0		2020-03-24	Amendment 1 - Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases	EN-FR, ES	IEC 60079-2:2014 RLV contains both the official IEC International Standard and its Redline version. The Redline version is available in English only and provides you with a quick and easy way to compare all the changes between the official IEC Standard and its previous edition. IEC 60079-2:2014 contains the specific requirements for the construction and testing of electrical equipment with pressurized enclosures, of type of protection "p", intended for use in explosive gas atmospheres or explosive dust atmospheres. It also includes the requirements for pressurized enclosures containing a limited release of a flammable substance. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this standard conflicts with a requirement of IEC 60079-0, the requirements of this standard take precedence. This standard does not include the requirements for: - pressurized enclosures where the containment system may release air with an oxygen content greater than normal, or oxygen in combination with inert gas where the oxygen is in a proportion greater than 21 %; - pressurized rooms or analyser houses; see IEC 60079-13; - pressurized enclosures used where "explosives" or pyrotechnics are present; - pressurized enclosures used where
IEC 60079-6:2015+AMD1:2020 CSV	Edition 4.1		2020-02-24	Explosive atmospheres - Part 6: Equipment protection by liquid immersion "o"	EN-FR	

IEC 60079-6:2015/AMD1:2020	Edition 4.0		2020-02-24	Amendment 1 - Explosive atmospheres - Part 6: Equipment protection by liquid immersion "o"	EN-FR	<p>IEC 60079-5:2015+AMD1:2022 contains specific requirements for the construction, testing and marking of electrical equipment, parts of electrical equipment and Ex components in the type of protection powder filling "q", intended for use in explosive gas atmospheres. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this standard conflicts with a requirement of IEC 60079-0, the requirement of this standard takes precedence. This standard applies to electrical equipment, parts of electrical equipment and Ex components with:</p> <ul style="list-style-type: none"> - a rated supply current less than or equal to 16 A; - a rated supply voltage less than or equal to 1 000 V; - a rated power consumption less than or equal to 1 000 W. <p>This fourth edition cancels and replaces the third edition, published in 2007, and constitutes a technical revision. Refer to the Foreword of the document for a complete listing of the technical changes between edition 4.0 and previous edition of the document. Keywords: electrical equipment and Ex components in the type of protection powder filling "q"</p>
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IEC 60079-0:2017/COR1:2020	Edition 7.0	1	2020-01-20	Corrigendum 1 - Explosive atmospheres - Part 0: Equipment - General requirements	EN-FR	<p>IEC 60079-5:2015 is available as IEC 60079-5:2015 RLV which contains the International Standard and its Redline version, showing all changes of the technical content compared to the previous edition.</p> <p>IEC 60079-5:2015 contains specific requirements for the construction, testing and marking of electrical equipment, parts of electrical equipment and Ex components in the type of protection powder filling "q", intended for use in explosive gas atmospheres. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this standard conflicts with a requirement of IEC 60079-0, the requirement of this standard takes precedence. This standard applies to electrical equipment, parts of electrical equipment and Ex components with:</p> <ul style="list-style-type: none"> - a rated supply current less than or equal to 16 A; - a rated supply voltage less than or equal to 1 000 V; - a rated power consumption less than or equal to 1 000 W. <p>This fourth edition cancels and replaces the third edition, published in 2007, and constitutes a technical revision. Refer to the Foreword of the document for a complete listing of the technical changes between edition 4.0 and previous edition of the document. Keywords: electrical equipment and Ex components in the type</p>
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IEC 62990-1:2019/COR1:2019	Edition 1.0	1	2019-12-04	Corrigendum 1 - Workplace atmospheres - Part 1: Gas detectors - Performance requirements of detectors for toxic gases	EN-FR	<p>IEC 60079-5:2015 RLV contains both the official IEC International Standard and its Redline version. The Redline version is available in English only and provides you with a quick and easy way to compare all the changes between the official IEC Standard and its previous edition.</p> <p>IEC 60079-5:2015 contains specific requirements for the construction, testing and marking of electrical equipment, parts of electrical equipment and Ex components in the type of protection powder filling "q", intended for use in explosive gas atmospheres. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this standard conflicts with a requirement of IEC 60079-0, the requirement of this standard takes precedence. This standard applies to electrical equipment, parts of electrical equipment and Ex components with:</p> <ul style="list-style-type: none"> - a rated supply current less than or equal to 16 A; - a rated supply voltage less than or equal to 1 000 V; - a rated power consumption less than or equal to 1 000 W. <p>This fourth edition cancels and replaces the third edition, published in 2007, and constitutes a technical revision. Refer to the Foreword of the document for a complete listing of the technical changes between edition 4.0 and previous edition of the document.</p> <p>Keywords: electrical equipment and Ex components in the type</p>
IEC 60079-28:2015/ISH1:2019	Edition 2.0	1	2019-11-14	Interpretation Sheet 1 - Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation	EN-FR	

IEC 60079-0:2017/ISH2:2019	Edition 7.0	2	2019-06-27	Interpretation Sheet 2 - Explosive atmospheres - Part 0: Equipment - General requirements	EN-FR	<p>IEC 60079-6:2015+A1:2020 specifies the requirements for the design, construction, testing and marking of Ex Equipment and Ex Components with type of protection liquid immersion "o" intended for use in explosive gas atmospheres. Ex Equipment and Ex Components of type of protection liquid immersion "o" are either:</p> <ul style="list-style-type: none"> - Level of Protection "ob" (EPL "Mb" or "Gb") or - Level of Protection "oc" (EPL "Gc"). <p>For Level of Protection "ob", this standard applies where the rated voltage does not exceed 11 kV r.m.s. a.c. or d.c. For Level of Protection "oc", this standard applies where the rated voltage does not exceed 15 kV r.m.s. a.c. or d.c. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this standard conflicts with a requirement of IEC 60079-0, the requirement of this standard takes precedence. This fourth edition cancels and replaces the third edition, published in 2007. This edition constitutes a technical revision. The significant changes with respect to the previous edition are:</p> <ul style="list-style-type: none"> - Edition 4 represents a major technical revision of the requirements for oil immersion "o" and should be considered as introducing all new requirements. The normal "Table of Significant Changes" has not been included for this reason. In particular: - The requirements for oil immersion "o" have
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IEC 62990-1:2019	Edition 1.0		2019-06-26	Workplace atmospheres - Part 1: Gas detectors - Performance requirements of detectors for toxic gases	EN-FR, ES	IEC 60079-6:2015 specifies the requirements for the design, construction, testing and marking of Ex Equipment and Ex Components with type of protection liquid immersion "o" intended for use in explosive gas atmospheres. Ex Equipment and Ex Components of type of protection liquid immersion "o" are either: - Level of Protection "ob" (EPL "Mb" or "Gb") or - Level of Protection "oc" (EPL "Gc"). For Level of Protection "ob", this standard applies where the rated voltage does not exceed 11 kV r.m.s. a.c. or d.c. For Level of Protection "oc", this standard applies where the rated voltage does not exceed 15 kV r.m.s. a.c. or d.c. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this standard conflicts with a requirement of IEC 60079-0, the requirement of this standard takes precedence. This fourth edition cancels and replaces the third edition, published in 2007. This edition constitutes a technical revision. The significant changes with respect to the previous edition are: - Edition 4 represents a major technical revision of the requirements for oil immersion "o" and should be considered as introducing all new requirements. The normal "Table of Significant Changes" has not been included for this reason. In particular: - The requirements for oil immersion "o" have
IEC 60079-0:2017/ISH1:2019	Edition 7.0	1	2019-04-23	Interpretation Sheet 1 - Explosive atmospheres - Part 0: Equipment - General requirements	EN-FR	

IEC TS 60079-42:2019	Edition 1.0		2019-04-17	Explosive atmospheres - Part 42: Electrical safety devices for the control of potential ignition sources for Ex-Equipment	EN-FR	<p>IEC 60079-7:2015+A1:2017 specifies the requirements for the design, construction, testing and marking of electrical equipment and Ex Components with type of protection increased safety "e" intended for use in explosive gas atmospheres. Electrical equipment and Ex Components of type of protection increased safety "e" are either:</p> <ul style="list-style-type: none"> - level of Protection "eb" (EPL "Mb" or "Gb"); - level of Protection "ec" (EPL "Gc"). <p>Level of Protection "eb" applies to equipment or Ex Components, including their connections, conductors, windings, lamps, and batteries; but not including semiconductors or electrolytic capacitors. Level of Protection "ec" applies to equipment or Ex Components, including their connections, conductors, windings, lamps, and batteries; and also including semiconductors and electrolytic capacitors. The requirements of this standard apply to both Levels of Protection unless otherwise stated. For Level of Protection "eb", this standard applies to electrical equipment where the rated voltage does not exceed 11 kV r.m.s., a.c. or d.c. For Level of Protection "ec", this standard applies to electrical equipment where the rated voltage does not exceed 15 kV r.m.s., a.c. or d.c. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this standard conflicts with a requirement of IEC 60079-0</p>
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IEC 60079-29-1:2016/ISH1:2019	Edition 2.0	1	2019-04-16	Interpretation Sheet 1 - Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases	EN	IEC 60079-7:2015 specifies the requirements for the design, construction, testing and marking of electrical equipment and Ex Components with type of protection increased safety "e" intended for use in explosive gas atmospheres. Electrical equipment and Ex Components of type of protection increased safety "e" are either: - Level of Protection "eb" (EPL "Mb" or "Gb"); or - Level of Protection "ec" (EPL "Gc"). Level of Protection "eb" applies to equipment or Ex Components, including their connections, conductors, windings, lamps, and batteries; but not including semiconductors or electrolytic capacitors. Level of Protection "ec" applies to equipment or Ex Components, including their connections, conductors, windings, lamps, and batteries; and also including semiconductors and electrolytic capacitors. The requirements of this standard apply to both Levels of Protection unless otherwise stated. For Level of Protection "eb", this standard applies to electrical equipment where the rated voltage does not exceed 11 kV r.m.s., a.c. or d.c. For Level of Protection "ec", this standard applies to electrical equipment where the rated voltage does not exceed 15 kV r.m.s., a.c. or d.c. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this standard conflicts with a requirement of IEC 60079-0
IEC 60079-29-1:2016/ISH2:2019	Edition 2.0	2	2019-04-16	Interpretation Sheet 2 - Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases	EN	
IEC 60079-18:2014/COR1:2018	Edition 4.0	1	2018-07-25	Corrigendum 1 - Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"	EN-FR	

IEC 60079-1:2014/COR1:2018	Edition 7.0	1	2018-06-26	Corrigendum 1 - Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"	EN-FR	<p><!-- NEW -->IEC 60079-15:2017 is available as IEC 60079-15:2017 RLV which contains the International Standard and its Redline version, showing all changes of the technical content compared to the previous edition. IEC 60079-15:2017 specifies requirements for the construction, testing and marking for Group II electrical equipment with type of protection "n" which includes; sealed devices "nC", hermetically sealed devices "nC", non-incendive components "nC" and restricted breathing enclosures "nR" intended for use in explosive gas atmospheres. This part of IEC 60079 applies to electrical equipment where the rated input voltage does not exceed 15 kV r.m.s. AC or DC including where the internal working voltages of the Ex product exceeds 15 kV, for example starters for HID luminaires. This part of IEC 60079 supplements and modifies the general requirements of IEC 60079-0, except as indicated in Table 1 (Clause 1). Where a requirement of this part of IEC 60079 conflicts with a requirement of IEC 60079-0, the requirement of this part of IEC 60079 takes precedence. This fifth edition cancels and replaces the fourth edition, published in 2010, and constitutes a technical revision. Refer to the Forward of the document for a complete listing of the technical changes</p>
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IEC 60079-0:2017	Edition 7.0		2017-12-13	Explosive atmospheres - Part 0: Equipment - General requirements	EN-FR, ES	<p>IEC 60079-15:2017 RLV contains both the official IEC International Standard and its Redline version. The Redline version is available in English only and provides you with a quick and easy way to compare all the changes between the official IEC Standard and its previous edition.</p> <p>IEC 60079-15:2017 specifies requirements for the construction, testing and marking for Group II electrical equipment with type of protection “n” which includes; sealed devices “nC”, hermetically sealed devices “nC”, non-incendive components “nC” and restricted breathing enclosures “nR” intended for use in explosive gas atmospheres. This part of IEC 60079 applies to electrical equipment where the rated input voltage does not exceed 15 kV r.m.s. AC or DC including where the internal working voltages of the Ex product exceeds 15 kV, for example starters for HID luminaires. This part of IEC 60079 supplements and modifies the general requirements of IEC 60079-0, except as indicated in Table 1 (Clause 1). Where a requirement of this part of IEC 60079 conflicts with a requirement of IEC 60079-0, the requirement of this part of IEC 60079 takes precedence. This fifth edition cancels and replaces the fourth edition, published in 2010, and constitutes a technical revision. Refer to the Forward of the document for a complete listing of the technical changes.</p>
IEC 60079-0:2017 RLV	Edition 7.0		2017-12-13	Explosive atmospheres - Part 0: Equipment - General requirements	EN	<p>Gives the general principles of protection by artificial ventilation. This publication has the status of a technical report.</p>

IEC 60079-15:2017	Edition 5.0		2017-12-08	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"	EN-FR, ES	<p>IEC 60079-18:2014+A1:2017 gives the specific requirements for the construction, testing and marking of electrical equipment, parts of electrical equipment and Ex components with the type of protection encapsulation "m" intended for use in explosive gas atmospheres or explosive dust atmospheres. This part applies only for encapsulated electrical equipment, encapsulated parts of electrical equipment and encapsulated Ex components (hereinafter always referred to as "m" equipment) where the rated voltage does not exceed 11 kV. The application of electrical equipment in atmospheres, which may contain explosive gas as well as combustible dust simultaneously, may require additional protective measures. This standard does not apply to dusts of explosives, which do not require atmospheric oxygen for combustion, or to pyrophoric substances. This standard does not take account of any risk due to an emission of flammable or toxic gas from the dust. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this standard conflicts with a requirement of IEC 60079-0, the requirement of this standard takes precedence. This fourth edition cancels and replaces the third edition of IEC 60079-18:2009, and constitutes a technical revision. Please refer to the foreword of the</p>
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IEC 60079-15:2017 RLV	Edition 5.0		2017-12-08	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"	EN	<p>IEC 60079-18:2014 RLV contains both the official IEC International Standard and its Redline version. The Redline version is available in English only and provides you with a quick and easy way to compare all the changes between the official IEC Standard and its previous edition.</p> <p>IEC 60079-18:2014 gives the specific requirements for the construction, testing and marking of electrical equipment, parts of electrical equipment and Ex components with the type of protection encapsulation "m" intended for use in explosive gas atmospheres or explosive dust atmospheres. This part applies only for encapsulated electrical equipment, encapsulated parts of electrical equipment and encapsulated Ex components (hereinafter always referred to as "m" equipment) where the rated voltage does not exceed 11 kV. The application of electrical equipment in atmospheres, which may contain explosive gas as well as combustible dust simultaneously, may require additional protective measures. This standard does not apply to dusts of explosives, which do not require atmospheric oxygen for combustion, or to pyrophoric substances. This standard does not take account of any risk due to an</p>
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IEC TS 60079-43:2017	Edition 1.0		2017-11-13	Explosive atmospheres - Part 43: Equipment in adverse service conditions	EN	IEC 60079-18:2014 is available as https://webstore.iec.ch/publication/22127 IEC 60079-18:2014 RLV which contains the International Standard and its Redline version, showing all changes of the technical content compared to the previous edition. IEC 60079-18:2014 gives the specific requirements for the construction, testing and marking of electrical equipment, parts of electrical equipment and Ex components with the type of protection encapsulation "m" intended for use in explosive gas atmospheres or explosive dust atmospheres. This part applies only for encapsulated electrical equipment, encapsulated parts of electrical equipment and encapsulated Ex components (hereinafter always referred to as "m" equipment) where the rated voltage does not exceed 11 kV. The application of electrical equipment in atmospheres, which may contain explosive gas as well as combustible dust simultaneously, may require additional protective measures. This standard does not apply to dusts of explosives, which do not require atmospheric oxygen for combustion, or to pyrophoric substances. This standard does not take account of any risk due to an emission of flammable or toxic gas from the dust. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this
IEC TS 60079-46:2017	Edition 1.0		2017-08-31	Explosive atmospheres - Part 46: Equipment assemblies	EN-FR, EN	
IEC 60079-18:2014+AMD1:2017 CSV	Edition 4.1		2017-08-24	Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"	EN-FR	

IEC 60079-18:2014/AMD1:2017	Edition 4.0		2017-08-24	Amendment 1 - Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"	EN-FR, ES	<p>IEC 60079-26:2021 specifies requirements for construction, testing and marking for Ex Equipment that contains parts of the equipment with different Equipment Protection Levels (EPLs) and a separation element. This equipment is mounted across a boundary where different EPLs are required, for example between different gas hazardous areas, dust hazardous areas or gas hazardous areas adjacent to dust hazardous areas.</p> <p>Separation elements are considered for both electrical and non-electrical equipment. If mechanical energy can be transformed into a potential ignition source, additionally an ignition hazard assessment in accordance with ISO 80079-36 is performed and appropriate measures are undertaken.</p> <p>This document also specifies requirements for the combination of two Types of Protection, each with EPL Gb, to achieve EPL Ga.</p> <p>This document supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this document conflicts with a requirement of IEC 60079-0, the requirement of this document takes precedence. This fourth edition cancels and replaces the third edition and constitutes a technical revision.</p> <p>Please see the IEC 60079-26:2020 foreword for a description of the main changes with respect to the previous edition.</p>
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IEC 60079-7:2015+AMD1:2017 CSV	Edition 5.1		2017-08-04	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"	EN-FR	<p>IEC 60079-28:2015 is available as https://webstore.iec.ch/publication/22536 IEC 60079-28:2015 RLV which contains the International Standard and its Redline version, showing all changes of the technical content compared to the previous edition.</p> <p>IEC 60079-28:2015 specifies the requirements, testing and marking of equipment emitting optical radiation intended for use in explosive atmospheres. It also covers equipment located outside the explosive atmosphere or protected by a Type of Protection listed in IEC 60079-0, but which generates optical radiation that is intended to enter an explosive atmosphere. It covers Groups I, II and III, and EPLs Ga, Gb, Gc, Da, Db, Dc, Ma and Mb. This standard does not cover ignition by ultraviolet radiation and by absorption of the radiation in the explosive mixture itself. Explosive absorbers or absorbers that contain their own oxidizer as well as catalytic absorbers are also outside the scope of this standard. This second edition cancels and replaces the first edition, published in 2006, and constitutes a technical revision. Refer to the Foreword of the document for a complete listing of the technical changes between edition 2.0 and previous edition of the document. Keywords: equipment emitting optical radiation intended for use in explosive atmospheres. The Interpretation sheet</p>
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IEC 60079-7:2015/AMD1:2017	Edition 5.0		2017-08-04	Amendment 1 - Explosive atmospheres - Part 7: Equipment protection by increased safety "e"	EN-FR, ES	<p>IEC 60079-28:2015 RLV contains both the official IEC International Standard and its Redline version. The Redline version is available in English only and provides you with a quick and easy way to compare all the changes between the official IEC Standard and its previous edition.</p> <p>IEC 60079-28:2015 specifies the requirements, testing and marking of equipment emitting optical radiation intended for use in explosive atmospheres. It also covers equipment located outside the explosive atmosphere or protected by a Type of Protection listed in IEC 60079-0, but which generates optical radiation that is intended to enter an explosive atmosphere. It covers Groups I, II and III, and EPLs Ga, Gb, Gc, Da, Db, Dc, Ma and Mb. This standard does not cover ignition by ultraviolet radiation and by absorption of the radiation in the explosive mixture itself. Explosive absorbers or absorbers that contain their own oxidizer as well as catalytic absorbers are also outside the scope of this standard. This second edition cancels and replaces the first edition, published in 2006, and constitutes a technical revision. Refer to the Foreword of the document for a complete listing of the technical changes between edition 2.0 and previous edition.</p> <p>Keywords: equipment emitting optical radiation intended for use in explosive atmospheres</p> <p>The interpretation sheet</p>
IEC TS 60079-32-1:2013+AMD1:2017 CSV	Edition 1.1		2017-03-16	Explosive atmospheres - Part 32-1: Electrostatic hazards - guidance	EN-FR, EN	

IEC TS 60079-32-1:2013/AMD1:2017	Edition 1.0		2017-03-16	Amendment 1 - Explosive atmospheres - Part 32-1: Electrostatic hazards, guidance	EN-FR, EN	<p>IEC 60079-29-1:2016+A1:2020 specifies general requirements for construction, testing and performance, and describes the test methods that apply to portable, transportable and fixed equipment for the detection and measurement of flammable gas or vapour concentrations with air. The equipment, or parts thereof, is intended for use in explosive atmospheres and in mines susceptible to firedamp. This second edition of IEC 60079-29-1 cancels and replaces the first edition of IEC 60079-29-1:2007 series and constitutes a technical revision. Refer to the Forward of the document for a listing of the extensive changes between this edition and the previous edition. The contents of the interpretation sheets 1 and 2 (2019-04) have been included in this copy.</p> <p>This consolidated version of the official IEC Standard and its amendment consists of the second edition (2016) and its amendment 1 (2020). Therefore, no need to order amendments in addition to this publication.</p> <p>Keywords: detection and measurement of flammable gas or vapour concentrations with air, explosive atmospheres, mines susceptible to firedamp, explosion hazard</p>
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IEC 60079-7:2015/ISH1:2016	Edition 5.0	1	2016-09-15	Intpretation sheet 1 - Explosive atmospheres - Part 7: Equipment protection by increased safety "e"	EN-FR	IEC 60079-29-1:2016 specifies general requirements for construction, testing and performance, and describes the test methods that apply to portable, transportable and fixed equipment for the detection and measurement of flammable gas or vapour concentrations with air. The equipment, or parts thereof, is intended for use in explosive atmospheres and in mines susceptible to firedamp. This second edition of IEC 60079-29-1 cancels and replaces the first edition of IEC 60079-29-1:2007 series and constitutes a technical revision. Refer to the Forward of the document for a listing of the extensive changes between this edition and the previous edition. Keywords: detection and measurement of flammable gas or vapour concentrations with air, explosive atmospheres, mines susceptible to firedamp, explosion hazard The contents of the interpretation sheets 1 and 2 (2019-04) have been included in this copy.
IEC 60079-29-1:2016	Edition 2.0		2016-07-21	Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases	EN-FR, EN, ES	
IEC/IEEE 60079-30-1:2015	Edition 1.0		2015-09-28	Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements	EN-FR, EN, ES	
IEC/IEEE 60079-30-2:2015	Edition 1.0		2015-09-28	Explosive atmospheres - Part 30-2: Electrical resistance trace heating - Application guide for design, installation and maintenance	EN-FR, EN, ES	

IEC 60079-2:2014/COR1:2015	Edition 6.0	1	2015-07-07	Corrigendum 1 - Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"	EN-FR	<p>IEC 60079-29-2:2015 is available as https://webstore.iec.ch/publication/22252 IEC 60079-29-2:2015 RLV which contains the International Standard and its Redline version, showing all changes of the technical content compared to the previous edition.</p> <p>IEC 60079-29-2:2015 gives guidance on, and recommended practice for, the selection, installation, safe use and maintenance of electrically operated Group II equipment intended for use in industrial and commercial safety applications and Group I equipment in underground coal mines for the detection and measurement of flammable gases complying with the requirements of IEC 60079-29-1 or IEC 60079-29-4. This second edition cancels and replaces the first edition published in 2007. This edition constitutes a technical revision. Please refer to the Foreword of the document for a listing of the changes from the previous edition. Keywords: gas detectors, flammable gases, vapours</p>
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IEC 60079-7:2015	Edition 5.0		2015-06-26	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"	EN-FR, EN, ES	<p>IEC 60079-29-2:2015 RLV contains both the official IEC International Standard and its Redline version. The Redline version is available in English only and provides you with a quick and easy way to compare all the changes between the official IEC Standard and its previous edition.</p> <p>IEC 60079-29-2:2015 gives guidance on, and recommended practice for, the selection, installation, safe use and maintenance of electrically operated Group II equipment intended for use in industrial and commercial safety applications and Group I equipment in underground coal mines for the detection and measurement of flammable gases complying with the requirements of IEC 60079-29-1 or IEC 60079-29-4. This second edition cancels and replaces the first edition published in 2007. This edition constitutes a technical revision. Please refer to the Foreword of the document for a listing of the changes from the previous edition.</p> <p>Keywords: gas detectors, flammable gases, vapours</p>
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IEC 60079-28:2015	Edition 2.0		2015-05-27	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation	EN-FR, ES	<p>IEC 60079-29-3:2014 gives guidance for the design and implementation of a fixed gas detection system, including associated and/or peripheral gas detection equipment, for the detection of flammable gases/vapours and oxygen when used in a safety-related application in accordance with IEC 61508 and IEC 61511. This International standard also applies to the detection of toxic gases. Other parts of this international standard and pertinent local, national and international standards separately specify the performance requirements of a gas detector and a gas detection control unit (logic solver). These standards are commonly known as Metrological Performance Standards and are concerned with the accuracy of the measured value, the overall system performance, but not the device or system integrity with respect to the safety function. This international standard applies to the integrity of the safety function. Keywords: fixed gas detection system, flammable gases/vapours and Oxygen, detection of toxic gases</p> <p>This publication is to be read in conjunction with IEC 60079-0:2011, IEC 60079-29-1:2007</p>
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IEC 60079-28:2015 RLV	Edition 2.0		2015-05-27	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation	EN	IEC 60079-29-4:2009 specifies performance requirements of equipment for the detection and measuring of flammable gases or vapours in ambient air by measuring the spectral absorption by the gases or vapours over extended optical paths, ranging typically from one meter to a few kilometres. Such equipment measures the integral concentration of the absorbing gas over the optical path in units such as LFL meter for flammable gases. This standard supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this standard conflicts with a requirement of IEC 60079-0, the requirement of this standard shall take precedence. The contents of the corrigendum of August 2010 have been included in this copy.
IEC 60079-29-2:2015	Edition 2.0		2015-03-16	Explosive atmospheres - Part 29-2: Gas detectors - Selection, installation, use and maintenance of detectors for flammable gases and oxygen	EN-FR, EN, ES	

IEC 60079-29-2:2015 RLV	Edition 2.0		2015-03-16	Explosive atmospheres - Part 29-2: Gas detectors - Selection, installation, use and maintenance of detectors for flammable gases and oxygen	EN	<p>IEC/IEEE 60079-30-1:2015 specifies general and testing requirements for electrical resistance trace heaters for application in explosive atmospheres with the exclusion of those for EPL Ga and Da. This standard covers trace heaters that comprise either factory or field (work-site) assembled units, and which may be series trace heaters, parallel trace heaters, trace heater pads, or trace heater panels that have been assembled and/or terminated in accordance with the manufacturer's instructions. This standard also includes requirements for termination assemblies and control methods used with trace heating systems. The explosive atmospheres referred to in this standard are those defined in IEC 60079-10-1 and IEC 60079-10-2. Annexes D and E outline the application of this standard for those users applying the Division method of area classification. This standard supplements and modifies the general requirements of IEC 60079-0, except as indicated in Table 1 (refer to Clause 1 - Scope of the document). Where a requirement of this standard conflicts with a requirement of IEC 60079-0, the requirement of this standard takes precedence. This first edition of IEC/IEEE 60079-30-1 cancels and replaces the first edition of IEC 60079-30-1 published in 2007 and constitutes a technical revision. This edition includes the following significant</p>
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IEC 60079-32-2:2015	Edition 1.0		2015-02-25	Explosive atmospheres - Part 32-2: Electrostatics hazards - Tests	EN-FR, ES, RU	<p>IEC/IEEE 60079-30-2:2015 provides guidance for the application of electrical resistance trace heating systems in areas where explosive atmospheres may be present, with the exclusion of those classified as requiring EPL Ga/Da (traditional relationship to Zone 0 and Zone 20 respectively). This standard also provides guidance for explosive atmospheres incorporating the Division method of area classification that may be applied by some users of this standard. It provides recommendations for the design, installation, maintenance and repair of trace heating systems including associated control and monitoring equipment. It does not cover devices that operate by induction heating, skin effect heating or direct pipeline heating, nor those intended for stress relieving. This first edition of IEC/IEEE 60079-30-2 cancels and replaces the first edition of IEC 60079-30-2 published in 2007 and constitutes a technical revision. This edition includes the following significant changes, apart from a general review and updating of the first edition of IEC 60079-30-2, harmonization with IEEE Std.515, with respect to the previous edition:</p> <ul style="list-style-type: none"> - the relocation of trace heater product design methodology and requirements to IEC/IEEE 60079-30-1; - the relocation and/or duplication of information on installation, maintenance, and repair to the MTs under SC31.1 for their
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IEC 60079-6:2015	Edition 4.0		2015-02-20	Explosive atmospheres - Part 6: Equipment protection by liquid immersion "o"	EN-FR, ES	<p><!-- NEW! -->IEC 60079-31:2022 is available as IEC 60079-31:2022 RLV which contains the International Standard and its Redline version, showing all changes of the technical content compared to the previous edition. IEC 60079-31:2022 is applicable to equipment protected by enclosure and surface temperature limitation for use in explosive dust atmospheres. It specifies requirements for design, construction and testing of Ex Equipment and Ex Components. This document supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this document conflicts with a requirement of IEC 60079-0, the requirement of this document takes precedence. This document does not apply to dusts of explosives, which do not require atmospheric oxygen for combustion, or to pyrophoric substances. This document does not apply to Ex Equipment or Ex Components intended for use in underground parts of mines as well as those parts of surface installations of such mines endangered by firedamp and/or combustible dust. This document does not take account of any risk due to an emission of flammable or toxic gas from the dust. This third edition cancels and replaces the second edition published in 2013. This edition constitutes a</p>
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IEC 60079-5:2015	Edition 4.0		2015-02-17	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"	EN-FR, ES	<p>IEC 60079-31:2022 RLV contains both the official IEC International Standard and its Redline version. The Redline version is available in English only and provides you with a quick and easy way to compare all the changes between the official IEC Standard and its previous edition.</p> <p>IEC 60079-31:2022 is applicable to equipment protected by enclosure and surface temperature limitation for use in explosive dust atmospheres. It specifies requirements for design, construction and testing of Ex Equipment and Ex Components. This document supplements and modifies the general requirements of IEC 60079-0. Where a requirement of this document conflicts with a requirement of IEC 60079-0, the requirement of this document takes precedence. This document does not apply to dusts of explosives, which do not require atmospheric oxygen for combustion, or to pyrophoric substances. This document does not apply to Ex Equipment or Ex Components intended for use in underground parts of mines as well as those parts of surface installations of such mines endangered by firedamp and/or combustible dust. This document does not take account of any risk due to an emission of flammable or toxic gas from the dust. This third edition cancels and replaces the second edition published in 2013. This edition constitutes a technical revision. Main</p>
IEC 60079-5:2015 RLV	Edition 4.0		2015-02-17	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"	EN	

IEC TS 60079-40:2015	Edition 1.0		2015-02-05	Explosive atmospheres - Part 40: Requirements for process sealing between flammable process fluids and electrical systems	EN	<p>IEC TS 60079-32-1:2013+A1:2017 gives guidance about the equipment, product and process properties necessary to avoid ignition and electrostatic shock hazards arising from static electricity as well as the operational requirements needed to ensure safe use of the equipment, product or process. It can be used in a risk assessment of electrostatic hazards or for the preparation of product family or dedicated product standards for electrical or non-electrical machines or equipment. The purpose of this document is to provide standard recommendations for the control of static electricity, such as earthing of conductors, reduction of charging and restriction of chargeable areas of insulators. In some cases static electricity plays an integral part of a process, e.g. electrostatic coating, but often it is an unwelcome side effect and it is with the latter that this guidance is concerned. If the standard recommendations given in this document are fulfilled it can be expected that the risk of hazardous electrostatic discharges in an explosive atmosphere is at an acceptably low level. This consolidated version of the official IEC Standard and its amendment consists of the first edition (2013) and its amendment 1 (2017). Therefore, no need to order amendment in addition to this publication.</p> <p>Keywords: risk assessment of electrostatic hazards, static</p>
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IEC 60079-18:2014 RLV	Edition 4.0		2014-12-12	Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"	EN	<p>IEC TS 60079-32-1:2013 gives guidance about the equipment, product and process properties necessary to avoid ignition and electrostatic shock hazards arising from static electricity as well as the operational requirements needed to ensure safe use of the equipment, product or process. It can be used in a risk assessment of electrostatic hazards or for the preparation of product family or dedicated product standards for electrical or non-electrical machines or equipment.</p> <p>The purpose of this document is to provide standard recommendations for the control of static electricity, such as earthing of conductors, reduction of charging and restriction of chargeable areas of insulators. In some cases static electricity plays an integral part of a process, e.g. electrostatic coating, but often it is an unwelcome side effect and it is with the latter that this guidance is concerned. If the standard recommendations given in this document are fulfilled it can be expected that the risk of hazardous electrostatic discharges in an explosive atmosphere is at an acceptably low level.</p>
IEC 60079-18:2014	Edition 4.0		2014-12-12	Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"	EN-FR, ES	

IEC 60079-1:2014 RLV	Edition 7.0		2014-08-27	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"	EN	<p>IEC 60079-32-2:2015 describes test methods concerning the equipment, product and process properties necessary to avoid ignition and electrostatic shock hazards arising from static electricity. It is intended for use in a risk assessment of electrostatic hazards or for the preparation of product family or dedicated product standards for electrical or non-electrical machines or equipment. The purpose of this part of IEC 60079 is to provide standard test methods used for the control of static electricity, such as surface resistance, earth leakage resistance, powder resistivity, liquid conductivity, capacitance and evaluation of the incendivity of provoked discharges. It is especially intended for use with existing standards of the IEC 60079 series. This part of IEC 60079 presents the latest state of knowledge which may, however, slightly differ from requirements in other standards, especially concerning test climates. When a requirement of this standard conflicts with a requirement specified in IEC 60079-0, to avoid the possibility of re-testing previously approved equipment, the requirement in IEC 60079-0 applies only for equipment within the scope of IEC 60079-0. In all other cases, the statements in this part of IEC 60079 apply. Keywords: ignition and electrostatic shock hazards, static electricity</p>
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IEC 60079-2:2014	Edition 6.0		2014-07-21	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"	EN-FR, ES	IEC 60079-33:2012 gives the specific methodology for the assessment and testing, and requirements for marking of electrical equipment, parts of electrical equipment and Ex components with special protection "s". This part of IEC 60079 applies to electrical equipment employing a method of protection not covered by any existing standard in the IEC 60079 series, electrical equipment employing one or more recognized types of protection where the design and construction is not fully compliant with the standard for the type of protection, electrical equipment where the intended use is outside the parameters of the scope of the standard for the type of protection. Key words: requirements for marking of electrical equipment, Ex components with special protection "s".
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IEC 60079-2:2014 RLV	Edition 6.0		2014-07-21	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"	EN	<p>IEC 60079-35-1:2011 specifies requirements for the construction, testing and marking of caplights, including caplights with a point of connection for other equipment, for use in mines susceptible to firedamp (Group I - electrical equipment for explosive gas atmospheres as defined in IEC 60079-0). It deals only with the risk of the caplight becoming a source of ignition. The requirements for performance are in IEC 60079-35-2. This standard supplements and modifies the general requirements of IEC 60079-0 except as indicated in Table 1. This first edition cancels and replaces the second edition of IEC 62013-1, published in 2005, and constitutes a full technical revision. The main technical differences with respect to the previous edition are:</p> <ul style="list-style-type: none"> - the introduction of a means to achieve an equipment protection level (EPL) of Ma; - the introduction of a single clause relating to equipment construction replacing individual specific clauses for the headpiece, battery, cable and external charging contacts; - the deletion of statements relating to surface temperature, the rewording of statements relating to creepage and clearance and the addition of statements relating to thermal protection, electronic assemblies and additional circuitry; - specific referenc to lithium cells; - the addition of statements relating to battery recharging and protection
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IEC 60079-1:2014	Edition 7.0		2014-06-27	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"	EN-FR, ES	<p>IEC 60079-35-2:2011 details those performance and other safety features of caplights, including those with a point of connection for another equipment, not covered in IEC 60079-35-1, but which are important for the safety and working conditions of the user. It may also be applied to caplights for use in mines not likely to be endangered by firedamp. This first edition of IEC 60079-35-2 cancels and replaces the second edition (2005) of IEC 62013-2 published in 2005 and constitutes a full technical revision. The general revision and updating of Edition 2 of IEC 62013-2 has been necessitated by the advent of new technologies related to caplight design, in particular those related light-emitting diode (LED) light sources. It is intended that there should be a stronger link between Part 1 (Construction) and Part 2 (Performance) of this Standard by upgrading the reference in the Scope of part 1 from a note to a requirement. In addition as this Standard is now to become one of the IEC 60079 series, changes have been made to bring it more in line with others in the series by cross referencing. This has enabled there to be a reduction in the number and length of clauses in the Standard.</p>
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IEC 60079-29-3:2014	Edition 1.0		2014-03-27	Explosive atmospheres - Part 29-3: Gas detectors - Guidance on functional safety of fixed gas detection systems	EN-FR, ES	<p>IEC TS 60079-40:2015(E) provides specific requirements for process sealing between a flammable process fluid and an electrical system where a failure could allow the migration of the process fluid directly into the premises wiring system. This document contains requirements for evaluation, construction and testing of single process seal equipment, dual process seal equipment, and add-on secondary process seals. The requirements of this document do not apply to conduit sealing devices, cable glands and other wiring sealing methods addressed in the IEC 60079 series or other standards. Requirements for basic electrical safety and explosion protection are not addressed by this document, but may apply to the equipment under investigation. The effects of leakage to the environment are not addressed by this document.</p> <p>Keywords: process sealing between a flammable process fluid and an electrical system</p>
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IEC TS 60079-32-1:2013	Edition 1.0		2013-08-20	Explosive atmospheres - Part 32-1: Electrostatic hazards, guidance	EN-FR, EN, RU	<p>IEC TS 60079-42:2019 provides guidance for equipment manufacturers where electrical safety devices are used to reduce the likelihood of potential ignition sources becoming effective in Ex Equipment located in Explosive Atmospheres. Electrical safety devices perform a safety function to control potential ignition sources from both, electrical or non-electrical Ex Equipment in explosive atmospheres.</p> <p>This Technical Specification may also be applied to a combination of elements performing a safety function. For example: Sensor, Logic system, Final element. This Technical Specification can also be used for assessing the safety device independently, without being designed for a specific Ex Equipment.</p> <p>A safety device can be a measure to achieve a required EPL of the Ex Equipment with respect to a potential ignition source. The combination of the safety device and the Ex Equipment could then comply with the relevant standards of the IEC 60079 series and the ISO 80079 series with respect to the Equipment Protection Level. However, increasing the EPL of Ex Equipment by the simple addition of a safety device is not within the scope of this Technical Specification.</p> <p>This Technical Specification does not apply to:</p> <ul style="list-style-type: none"> mechanical control equipment such as pressure relief valves, mechanical governors and other mechanical safety
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IEC 60079-33:2012	Edition 1.0		2012-09-27	Explosive atmospheres - Part 33: Equipment protection by special protection 's'	EN-FR	<p>IEC TS 60079-43:2017(E) which is a Technical Specification, provides guidance for equipment for use in explosive atmospheres in environments which may include ambient temperatures below -20 °C, and additional adverse conditions, including maritime applications. The purpose of this document is to provide recommendations to be considered for the design, manufacture and use of equipment. It is intended that this document be used for equipment operating within the environmental range specified on the certificate for the equipment. This document is intended to be used in conjunction with the IEC 60079 series and the ISO/IEC 80079 series.
 Keywords: electrical equipment for use in explosive atmospheres
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IEC 60079-35-2:2011	Edition 1.0		2011-12-07	Explosive atmospheres - Part 35-2: Caplights for use in mines susceptible to firedamp - Performance and other safety-related matters	EN-FR, ES	<p>IEC TS 60079-44:2023, which is a Technical Specification, is to provide guidance to establish recommended minimum criteria to determine roles, establish expectations of the necessary skills and evidence of competence to assess and manage the competence of personnel conducting work in or associated with hazardous areas. The purpose of this document is to provide guidance to establish:</p> <ul style="list-style-type: none"> • recommended minimum criteria to determine roles, • expectations of the necessary skills, and • evidence of competence <p>in order to assess and manage the competence of personnel who are conducting work in or associated with hazardous areas. This document provides examples and recommendations of minimum levels of competence for typical roles associated with hazardous areas by addressing the knowledge, skills, or abilities that is expected of personnel. Additionally, examples of the evidence of competence expected for each role are provided.</p> <p>The aim of this document is to assist in defining, assessing, and managing unique requirements for the competence of individuals working in or associated with installations where an explosive atmosphere could be present. Such a programme could be specific to a facility or used in conjunction with other regulatory requirements where they exist. The competencies for conducting</p>
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IEC 60079-35-1:2011	Edition 1.0		2011-05-26	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	EN-FR, ES	<p>IEC TS 60079-46:2017 specifies requirements for the design, construction, assembly, testing, inspection, marking, documenting and assessment of equipment assemblies for use in explosive atmospheres under the responsibility of the manufacturer of the equipment assembly. The requirements of this document apply to individual items according to the IEC 60079 series or ISO 80079 series that comprise the assembly and that have individual certificates. These individual items are then integrated as part of the equipment assembly. Also included are requirements to address aspects for the assembly which may be beyond the certificates of the individual items forming the assembly. The scope of this document includes assessment of the additional requirements for assemblies for hazardous areas and does not include requirements for non-hazardous areas. It is assumed that compliance with other electrical or mechanical requirements that are applicable for non-hazardous areas will be verified by either the same or different party in addition to the requirements of this document. This document does not apply to:</p> <ul style="list-style-type: none"> - equipment which is covered, in its entirety, by one or more IEC 60079 and ISO 80079 equipment types of protection; - pressurized rooms, "p", in accordance with IEC 60079-13; artificial ventilation for the
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IEC 60079-29-4:2009/COR1:2010	Edition 1.0	1	2010-08-10	Corrigendum 1 - Explosive atmospheres - Part 29-4: Gas detectors - Performance requirements of open path detectors for flammable gases	EN-FR	IEC 62990-1:2019 specifies general requirements for design, function and performance, and describes the test methods that apply to portable, transportable, and fixed equipment for the detection and concentration measurement of toxic gases and vapours in workplace atmospheres and other industrial and commercial applications. This document is applicable to continuously sensing equipment whose primary purpose is to provide an indication, alarm and/or other output function the purpose of which is to indicate the presence of a toxic gas or vapour in the atmosphere and in some cases to initiate automatic or manual protective action(s). It is applicable to equipment in which the sensor generates an electrical signal when gas is present. This document applies to two types of equipment: • Type HM (Health Monitoring) 'occupational exposure' equipment: For occupational exposure measurement, the performance requirements are focused on uncertainty of measurement of gas concentrations in the region of Occupational Exposure Limit Values (OELV). The upper limit of measurement will be defined by the manufacturer in accordance with 4.2.1. • Type SM (Safety Monitoring) 'general gas detection' equipment: For general gas detection applications (e.g. safety
IEC 60079-29-4:2009	Edition 1.0		2009-11-10	Explosive atmospheres - Part 29-4: Gas detectors - Performance requirements of open path detectors for flammable gases	EN-FR, ES	

IEC TR 60079-16:1990	Edition 1.0		1990-05-15	Electrical apparatus for explosive gas atmospheres. Part 16: Artificial ventilation for the protection of analyser(s) houses	EN-FR, ES	<p>IEC 62990-2:2021 gives guidance on the selection, installation, use and maintenance of electrical equipment used for the measurement of toxic gases and vapours in workplace atmospheres. The primary purpose of such equipment is to ensure safety of personnel and property by providing an indication of the concentration of a toxic gas or vapour and warning of its presence.</p> <p>This document is applicable to equipment whose purpose is to provide an indication, alarm or other output function to give a warning of the presence of a toxic gas or vapour in the atmosphere and in some cases to initiate automatic or manual protective actions. It is applicable to equipment in which the sensor automatically generates an electrical signal when gas is present.</p> <p>For the purposes of this document, equipment includes:</p> <ul style="list-style-type: none"> a) fixed equipment; b) transportable equipment, and c) portable equipment. <p>This document is intended to cover equipment defined within IEC 62990-1, but can provide useful information for equipment not covered by that document.</p>