

SLOVENSKI STANDARD SIST EN 60079-32-2:2015

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Eksplozivne atmosfere - 32-2. del: Elektrostatične nevarnosti - Preskusi (IEC 60079 -32-2:2015)

Explosive atmospheres - Part 32-2: Electrostatics hazards - Tests (IEC 60079-32-2:2015)

Explosionsgefährdete Bereiche - Teil 32-2: Elektrostatische Gefährdungen - Prüfverfahren (IEC 60079-32-2:2015) NDARD PREVIEW

Atmosphères explosives - Partie 32-2: Dangers électrostatiques - Essais (IEC 60079-32-2:2015)

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Ta slovenski standard je istoveten z: EN 60079-32-2-2015

ICS:

29.260.20 Električni aparati za Electrical apparatus for

eksplozivna ozračja explosive atmospheres

SIST EN 60079-32-2:2015 en,fr,de

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<u>SIST EN 60079-32-2:2015</u> https://standards.iteh.ai/catalog/standards/sist/4cdc9f37-feb2-462f-93b8-bd41368c643c/sist-en-60079-32-2-2015 EUROPEAN STANDARD NORME EUROPÉENNE EN 60079-32-2

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Explosive atmospheres - Part 32-2: Electrostatics hazards - Tests (IEC 60079-32-2:2015)

Atmosphères explosives - Partie 32-2: Dangers électrostatiques - Essais (IEC 60079-32-2:2015)

en SIA

Explosionsgefährdete Bereiche - Teil 32-2: Elektrostatische Gefährdungen - Prüfverfahren (IEC 60079-32-2:2015)

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

The text of document 31/1164/FDIS, future edition 1 of IEC 60079-32-2, prepared by IEC/TC 31 "Equipment for explosive atmospheres" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60079-32-2:2015.

The following dates are fixed:

•	latest date by which the document has to be	(dop)	2016-01-01
	implemented at national level by		
	publication of an identical national		
	standard or by endorsement		

 latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-04-01

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The text of the International Standard IEC 60079-32-2:2015 was approved by CENELEC as a European Standard without any modification.

IEC 60079-1	iTeh Standard as EN 60079-1.			
IEC 60079-7	NOTE Harmonized as EN 60079-7.			
IEC 60079-10-1	NOTESIS Harmonized as EN 60079-10-1. https://standards.iteh.ai/catalog/standards/sist/4cdc9f37-feb2-462f-93b8-			
IEC 60079-10-2	bNOTE8c(Harmonized as/EN/60079-10-25			
IEC 60167	NOTE Harmonized as HD 568 S1.			
IEC 61340-4-1	NOTE Harmonized as EN 61340-4-1.			
IEC 61340-4-3	NOTE Harmonized as EN 61340-4-3.			
IEC 61340-4-5	NOTE Harmonized as EN 61340-4-5.			
ISO 284	NOTE Harmonized as EN ISO 284.			
ISO 8031	NOTE Harmonized as EN ISO 8031.			
ISO 8330	NOTE Harmonized as EN ISO 8330.			

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

www.ceneiec.eu.				
Publication IEC 60079-0	<u>Year</u> -	<u>Title</u> Explosive atmospheres Part 0: Equipment -	<u>EN/HD</u> EN 60079-0	<u>Year</u> -
		General requirements		
IEC 60093	-	Methods of test for volume resistivity and surface resistivity of solid electrical insulating	+A11 HD 429 S1	-
IEC 60243-1	- iT	materials Electric strength of insulating materials - Test methods Part 1: Tests at power frequencies		-
IEC 60243-2	-	Electric strength of insulating materials - Test methods Part 2: Additional requirements for	EN 60243-2	-
IEC 60247	https://s	tests using direct voltage Insulating liquids - Measurement of relative permittivity, dielectric dissipation factor (tan d) and d.c. resistivity sist-en-60079-32-2-2015	EN 60247 2f-93b8-	-
IEC 61340-2-1	-	Electrostatics Part 2-1: Measurement methods - Ability of materials and products to dissipate static electric charge	EN 61340-2-1	-
IEC 61340-2-3	-	Electrostatics Part 2-3: Methods of test for determining the resistance and resistivity of solid planar materials used to avoid	EN 61340-2-3	-
IEC 61340-4-4	-	electrostatic charge accumulation Electrostatics - Part 4-4: Standard test methods for specific applications - Electrostatic classification of flexible	EN 61340-4-4	-
ISO 14309	-	intermediate bulk containers (FIBC) Rubber, vulcanized or thermoplastic - Determination of volume and/or surface resistivity	-	-
IEC/TS 60079-32-1	-	Explosive atmospheres - Part 32-1: Electrostatic hazards, guidance	CLC/TR 60079-32-1	-
IEC/TS 61241-2-2	-	Electrical apparatus for use in the presence of combustible dust Part 2: Test methods Section 2: Method for determining the electrical resistivity of dust in layers	fEN 61241-2-2	-
ASTM E582	-	Standard test method for minimum ignition energy and quenching distance in gaseous mixtures	-	-
EN 1081	-	Resilient floor coverings - Determination of the electrical resistance	-	-
EN 1149-3	-	Protective clothing - Electrostatic properties - Part 3: Test methods for measurement of charge decay	-	-

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IEC 60079-32-2

Edition 1.0 2015-02

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NORME INTERNATIONALE

Explosive atmospheres – STANDARD PREVIEW Part 32-2: Electrostatics hazards dards.iteh.ai)

Atmosphères explosives – SIST EN 60079-32-2:2015

Partie 32-2: Dangers électrostatiques de Essais de 9f37-feb2-462f-93b8-

bd41368c643c/sist-en-60079-32-2-2015

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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- 2 - IEC 60079-32-2:2015 © IEC 2015

CONTENTS

FC	REWO	PRD	5
1	Scop	e	7
2	Norm	native references	7
3	Term	is and definitions	8
4		methods	
_	4.1		
		General	
	4.2 4.2.1	Surface resistance	
	4.2.1		
	4.2.2		
	_	••	
	4.2.4	r	
	4.2.5		
	4.2.6	F	
	4.2.7	F	
	4.3	Surface resistivity	
	4.4	Volume resistivity	
	4.5	Leakage resistance General Teh. STANDARD PREVIEW	15
	4.5.1		
	4.5.2	Istandards Iteh all	15
	4.5.3	Apparatus	15
	4.5.4	SIST FN 60079-32-2:2015	15
	4.5.5	Procedure https://standards.iteh.ai/catalog/standards/sist/4cdc9f37-feb2-462f-93b8-	16
	4.5.6	1 000130000136/SBN CH 00017 32 2 2013	
	4.5.7	F	
	4.6	In-use testing of footwear	
	4.6.1	General	
	4.6.2	•	
	4.6.3	• • • • • • • • • • • • • • • • • • • •	
	4.6.4		
	4.6.5	'	
	4.6.6	·	
	4.7	In-use testing of gloves	17
	4.7.1	General	17
	4.7.2	Principle	18
	4.7.3	Apparatus	18
	4.7.4	Procedure	18
	4.7.5	Acceptance criteria	18
	4.7.6	Test report	18
	4.8	Powder resistivity	18
	4.8.1	General	18
	4.8.2	Principle	19
	4.8.3	Apparatus	19
	4.8.4	Procedure	20
	4.8.5	Acceptance criteria	20
	4.8.6	Test report	20
	4.9	Liquid conductivity	21

4.9.1	General	21
4.9.2	Principle	21
4.9.3	Apparatus	21
4.9.4	Procedure	22
4.9.5	Acceptance criteria	23
4.9.6	Test report	23
4.10 C	apacitance	23
4.10.1	General	23
4.10.2	Principle	24
4.10.3	Apparatus	24
4.10.4	Test sample	24
4.10.5	Procedure for moveable items	24
4.10.6	Procedure for installed items	25
4.10.7	Acceptance criteria	25
4.10.8	Test report	25
4.11 T	ransferred charge	25
4.11.1	General	25
4.11.2	Principle	26
4.11.3	Apparatus	
4.11.4	Test sample	
4.11.5	Procedure ch. STANDARD PREVIEW	
4.11.6		
4.11.7	Acceptance criteria Test report (Standards.iteh.ai)	28
	nition test	
4.12.1	SIST EN 60079-32-2:2015 General https://standards.iteh.avcatalog/standards/sist/4cdc9f37-feb2-462f-93b8-	29
4.12.2	Apparatusbd4-1368c643c/sist-en-60079-32-2-2015	29
4.12.3	Procedure	
4.12.4	Acceptance criteria	
4.12.5	Test report	
_	easuring of charge decay	
4.13.1	General	
4.13.2	Principle	
4.13.3	Apparatus	
4.13.4	Test sample	
4.13.4	Procedure	
4.13.5	Acceptance criteria	
4.13.0	Test report	
	•	
4.14 B	reakdown voltage	
4.14.1		
	Principle	
4.14.3	Apparatus	
4.14.4	Test procedure	
4.14.5	Acceptance criteria	
4.14.6	Test report	
Bibliography	/	38
Figure 1 – T	est sample with applied electrodes (dimensions in mm)	12
Figure 2 – M	leasuring cell for powder resistivity	19

SIST EN 60079-32-2:2015

	-4-	IEC 60079-32-2:2	.015 © IEC 2015
Figure 3 – Measuring cell for liquid conduc	ctivity		22
Figure 4 – Ignition probe			31
Figure 5 – Perforated plate of ignition prob	be		32
Figure 6 – Example of an arrangement for	measureme	ent of charge decay	34
Figure 7 – Electrodes for measuring break	kdown voltag	ge of sheets	36
Table 1 – Volume concentrations of flamm	nable test ga	as mixtures	30

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 60079-32-2:2015</u> https://standards.iteh.ai/catalog/standards/sist/4cdc9f37-feb2-462f-93b8-bd41368c643c/sist-en-60079-32-2-2015

INTERNATIONAL ELECTROTECHNICAL COMMISSION

EXPLOSIVE ATMOSPHERES -

Part 32-2: Electrostatics hazards – Tests

FOREWORD

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International Standard IEC 60079-32-2 has been prepared by IEC technical committee 31: Equipment for explosive atmospheres.

The text of this standard is based on the following documents:

FDIS	Report on voting
31/1164/FDIS	31/1176/RVD

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

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

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

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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-6-

EXPLOSIVE ATMOSPHERES –

Part 32-2: Electrostatics hazards - Tests

1 Scope

This part of IEC 60079 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.

NOTE IEC TS 60079-32-1, *Explosive atmospheres – Part 32-1: Electrostatic hazards, guidance*, was published in 2013. This international standard is not intended to supersede standards that cover specific products and industrial situations.

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 is itch ai/catalog/standards/sist/4cdc9B7-feb2-462f-93b8-

bd41368c643c/sist-en-60079-32-2-2015

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60079-0, Explosive atmospheres – Part 0: Equipment – General requirements

IEC TS 60079-32-1, Explosive atmospheres – Part 32-1: Electrostatic hazards, guidance

IEC 60093, Methods of test for volume resistivity and surface resistivity of solid electrical insulating materials

IEC 60243-1, Electric strength of insulating materials – Test methods – Part 1: Tests at power frequencies

IEC 60243-2, Electric strength of insulating materials – Test methods – Part 2: Additional requirements for tests using direct voltage

IEC 60247, Insulating liquids – Measurement of relative permittivity, dielectric dissipation factor (tan d) and d.c. resistivity

IEC TS 61241-2-2, Electrical apparatus for use in the presence of combustible dust – Part 2: Test methods – Section 2: Method for determining the electrical resistivity of dust in layers