

STN	Kvapaliny pre elektrotechnické použitie Špecifikácie pre opätovné použitie zmesí plynov alternatívnych k SF6	STN EN IEC 63359 34 6733
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Fluids for electrotechnical application: Specifications for the re-use of mixtures of gases alternative to SF6

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/26

Obsahuje: EN IEC 63359:2026, IEC 63359:2026

EUROPEAN STANDARD
NORME EUROPÉENNE
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EN IEC 63359

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English Version

**Fluids for electrotechnical application: Specifications for the re-
use of mixtures of gases alternative to SF₆
(IEC 63359:2026)**

Fluides pour applications électrotechniques : Spécifications
pour la réutilisation des mélanges de gaz alternatifs au SF₆
(IEC 63359:2026)

Flüssigkeiten für elektrotechnische Anwendungen:
Spezifikationen für die Wiederverwendung von
Gasgemischen als Alternative zu SF₆
(IEC 63359:2026)

This European Standard was approved by CENELEC on 2026-03-16. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 63359:2026 (E)**European foreword**

The text of document 10/1296/FDIS, future edition 1 of IEC 63359, prepared by TC 10 "Fluids for electrotechnical applications" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63359:2026.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2027-03-31 level by publication of an identical national standard or by endorsement
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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60480:2019	NOTE	Approved as EN IEC 60480:2019 (not modified)
IEC 62271-4:2022	NOTE	Approved as EN IEC 62271-4:2022 (not modified)

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-212	2010	International Electrotechnical Vocabulary - Part 212: Electrical insulating solids, liquids and gases	-	-
IEC 60050-426	2020	International Electrotechnical Vocabulary (IEV) - Part 426: Explosive atmospheres	-	-
IEC 60050-441	-	International Electrotechnical Vocabulary. Switchgear, controlgear and fuses	-	-
IEC 63360	2025	Fluids for electrotechnical application - Specification of gases alternative to SF ₆ to be used in electrical power equipment	EN IEC 63360	2025



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INTERNATIONAL STANDARD

Fluids for electrotechnical application: Specifications for the re-use of mixtures of gases alternative to SF₆

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Fluids for electrotechnical application -
Specifications for the re-use of mixtures of gases alternative to SF₆**

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IEC 63359 has been prepared by IEC technical committee 10: Fluids for electrotechnical applications. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
10/1296/FDIS	10/1298/RVD

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

The language used for the development of this International Standard is English.

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This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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1 Scope

This document provides the quality of gases alternative to SF₆ (subsequently referred to as gases) for their re-use in electrical power equipment after recovery and if applicable reclaiming (e.g., during maintenance, repair, overhaul or at the end-of-life). The re-use criteria consider technical and environmental concerns.

This document covers the same gases as listed in IEC 63360. For gases not mentioned in this document, the electrical power equipment manufacturer and/or the gas manufacturer provide the information indicated in this document. It is the intention of this document to include such gases in a next edition or in amendments to this edition.

Procedures for recovering and reclaiming of used gases are described in IEC 62271-4:2022.

NOTE 1 Reclaiming procedures of gases can be done by either reclaiming the complete gas or by separating the most valuable components from the gas.

Gas analysis techniques for checking the quality of the gas are described in this document.

It is the responsibility of the gas manufacturer and/or the electrical power equipment manufacturer to provide sufficient information for safe handling of gases and to provide a risk assessment. It is the responsibility of the user of the electrical power equipment to establish appropriate health and safety practices and to determine the applicability of regulatory limitations prior to use.

NOTE 2 If not otherwise specified in this document, concentration values (e.g. %, ppmv, µl/l) of gas components or contaminants are given in volume fraction at 20 °C and 100 kPa. More information on temperature and pressure dependence of mole fraction and volume fraction is given in IEC 63360:2025, Annex C.

NOTE 3 If gases for electrical power equipment are regulated, their designation and regulation origin can be found in the IEC 62474 database [1]¹ (available at <https://std.iec.ch/iec62474>).

NOTE 4 Information about storage, transportation and disposal of gases, gas properties, safety and first aid, environmental impact, training and certification, handling equipment, by-products, and procedures to evaluate the potential effects on health are covered by IEC 62271-4:2022.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-212:2010, *International Electrotechnical Vocabulary (IEV) - Part 212: Electrical insulating solids, liquids and gases* (available at <http://www.electropedia.org>)

IEC 60050-426:2020, *International Electrotechnical Vocabulary (IEV) - Part 826: Explosive atmospheres* (available at <http://www.electropedia.org>)

IEC 60050-441, *International Electrotechnical Vocabulary (IEV) - Part 441: Switchgear, controlgear and fuses* (available at <http://www.electropedia.org>)

IEC 63360:2025, *Fluids for electrotechnical application - Specification of gases alternative to SF₆ to be used in electrical power equipment*

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¹ Numbers in square brackets refer to the Bibliography.