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| STN | Súčasti systému ochrany pred bleskom (LPSC) Časť 7: Požiadavky na zmesi zlepšujúce uzemnenie | STN EN IEC 62561-7 35 7605 |
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Lightning protection system components (LPSC) - Part 7: Requirements for earthing enhancing compounds

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. 06/24

Obsahuje: EN IEC 62561-7:2024, IEC 62561-7:2024

Oznámením tejto normy sa od 28.03.2027 ruší
STN EN IEC 62561-7 (35 7605) zo septembra 2018

138727

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2024
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii
v znení neskorších predpisov.

EUROPEAN STANDARD

EN IEC 62561-7

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2024

ICS 29.020; 91.120.40

Supersedes EN IEC 62561-7:2018

English Version

**Lightning protection system components (LPSC) - Part 7:
Requirements for earthing enhancing compounds
(IEC 62561-7:2024)**

Composants des systèmes de protection contre la foudre
(CSPPF) - Partie 7: Exigences pour les enrichisseurs de terre
(IEC 62561-7:2024)

Blitzschutzsystembauteile (LPSC) - Teil 7: Anforderungen
an Mittel zur Verbesserung der Erdung
(IEC 62561-7:2024)

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EN IEC 62561-7:2024 (E)**European foreword**

The text of document 81/755/FDIS, future edition 3 of IEC 62561-7, prepared by IEC/TC 81 "Lightning protection" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62561-7:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2024-12-28
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2027-03-28

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IEC 62561-2 NOTE Approved as EN IEC 62561-2

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.cencenelec.eu.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--|--------------|-------------|
| ISO 4689-3 | - | Iron ores - Determination of sulfur content -- - Part 3: Combustion/infrared method | | - |
| - | - | Characterisation of waste - Leaching - Compliance test for leaching of granular waste materials and sludges - Part 2: One stage batch test at a liquid to solid ratio of 10 l/kg for materials with particle size below 4 mm (without or with size reduction) | EN 12457-2 | |
| - | - | Waste - Guidance on analysis of eluates | CEN/TR 16192 | |
| ASTM G102-89 | - | Standard Practice for Calculation of Corrosion Rates and Related Information from Electrochemical Measurements | - | - |
| ASTM G57-20 | - | Standard Test Method for Measurement of - Soil Resistivity Using the Wenner Four- Electrode Method | | - |
| ASTM G59-97 | - | Standard Test Method for Conducting Potentiodynamic Polarization Resistance Measurements | - | - |



IEC 62561-7

Edition 3.0 2024-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Lightning protection system components (LPSC) –
Part 7: Requirements for earthing enhancing compounds**

**Composants des systèmes de protection contre la foudre (CSPF) –
Partie 7: Exigences pour les enrichisseurs de terre**



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IEC 62561-7

Edition 3.0 2024-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Lightning protection system components (LPSC) –
Part 7: Requirements for earthing enhancing compounds**

**Composants des systèmes de protection contre la foudre (CSPF) –
Partie 7: Exigences pour les enrichisseurs de terre**

INTERNATIONAL
ELECTROTECHNICAL
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INTERNATIONALE

ICS 29.020, 91.120.40

ISBN 978-2-8322-8276-2

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

Part 7: Requirements for earthing enhancing compounds

FOREWORD

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IEC 62561-7 has been prepared by IEC technical committee 81: Lightning protection. It is an International Standard.

This third edition cancels and replaces the second edition published in 2018. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Figure A.1 has been replaced with a simpler one that clearly shows the high and low corrosion load limits of the earth enhancing compounds without the need for special knowledge;
- b) pH measurement has been introduced.

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

| Draft | Report on voting |
|-------------|------------------|
| 81/755/FDIS | 81/761/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.

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.

A list of all parts in the IEC 62561 series, published under the general title *Lightning protection system components (LPSC)*, can be found on the IEC website.

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.

INTRODUCTION

This part of IEC 62561 deals with the requirements and tests for earthing enhancing compounds used as lightning protection system components (LPSC) designed and implemented in accordance with the IEC 62305 series.

LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

Part 7: Requirements for earthing enhancing compounds

1 Scope

This part of IEC 62561 specifies the requirements and tests for earthing enhancing compounds producing low resistance of an earth termination system.

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.

ISO 4689-3, *Iron ores – Determination of sulfur content – Part 3: Combustion/infrared method*

EN 12457-2, *Characterisation of waste – Leaching – Compliance test for leaching of granular waste materials and sludges – Part 2: One stage batch test at a liquid to solid ratio of 10 l/kg for materials with particle size below 4 mm (without or with size reduction)*

CEN/TR 16192, *Waste – Guidance on analysis of eluates*

ASTM G57-20, *Standard Test Method for Measurement of Soil Resistivity Using the Wenner Four-Electrode Method*

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