



# PRE-RELEASE VERSION (FDIS)

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## Safety in installations for electroheating and electromagnetic processing – Part 8: Particular requirements for electroslag remelting furnaces

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

TITLE:

**Safety in installations for electroheating and electromagnetic processing - Part 8: Particular requirements for electrosag remelting furnaces**

PROPOSED STABILITY DATE: 2024

NOTE FROM TC/SC OFFICERS:

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### SAFETY IN INSTALLATIONS FOR ELECTROHEATING AND ELECTROMAGNETIC PROCESSING –

#### Part 8: Particular requirements for electroslag remelting furnaces

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International Standard IEC 60519-8 has been prepared by IEC technical committee 27: Industrial electroheating and electromagnetic processing.

This third edition cancels and replaces the second edition published in 2005. This edition constitutes a technical revision.

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

- a) the structure has been redrafted according to IEC 60519-1:2020;
- b) the Scope has been redrafted;
- c) the terms and definitions, normative references and bibliography have been updated and completed;
- d) all requirements and content from IEC 60519-8:2005 that have been included in IEC 60519-1:2020 have been removed to avoid any duplication.

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

FDIS	Report on voting
27/XX/FDIS	27/XX/RVD

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

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

A list of all parts in the IEC 60519 series, published under the general title *Safety in installations for electroheating and electromagnetic processing*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

This part of IEC 60519 is to be read in conjunction with Part 1. It supplements or modifies the corresponding clauses of Part 1. Where the text indicates a "modification" of, "addition" to or a "replacement" of the relevant provision of Part 1, these changes are made to the relevant text of Part 1. Where no change is necessary, the words "This clause of Part 1 is applicable" are used. When a particular subclause of Part 1 is not mentioned in this part, that subclause applies as far as is reasonable. When a particular subclause of Part 1 is not applicable, the word "Void" is used.

Additional specific provisions to those in Part 1, given as individual clauses or subclauses, are numbered starting from 101.

NOTE The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

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

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

## INTRODUCTION

The scope of this document covers very different types and designs of equipment used for many different purposes by the industry. It is intended to cover all industrial equipment based on electroslag heating of the workload, with examples described in Clause 1.

## SAFETY IN INSTALLATIONS FOR ELECTROHEATING AND ELECTROMAGNETIC PROCESSING –

### Part 8: Particular requirements for electroslag remelting furnaces

#### 1 Scope

This clause of Part 1 is modified as follows.

*Modification:*

This part of IEC 60519 specifies particular safety requirements for electroslag remelting equipment and installations.

This document specifies safety requirements applicable to mainly electroheating installations for remelting and, in some cases, for refining processes of metals through direct resistance heating of a conductive slag.

The object of this document is to specify the particular requirements for the safety of persons in or around an electroslag remelting furnace. The general requirements are included in IEC 60519-1.

#### 2 Normative references

This clause of Part 1 is applicable except as follows.

*Addition:*

IEC 60519-1, *Safety in installations for electroheating and electromagnetic processing – Part 1: General requirements*