

(Superseding IS 9080 (Part 4):1981)

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Draft Indian Standard

**Safety in installations for electroheating and electromagnetic processing –
Part 4: Particular requirements for arc furnace installations**

Industrial Process Measurement and
Control Sectional Committee, ETD 18

Last date of receipt of comments:
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NATIONAL FOREWORD

This draft Indian Standard which is identical with IEC 60519-4: 2021 “Safety in installations for electroheating and electromagnetic processing – Part 4: Particular requirements for arc furnace installations” issued by the International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of the Industrial Process Measurement And Control Sectional Committee and approval of the Electrotechnical Division Council.

This Standard superseding IS 9080 (Part 4): 1981 ‘Safety requirements in electro - Heat installations: Part 4 particular requirements for arc furnace installations’. After the publication of this standard, IS 9080 (Part 4): 1981 shall be treated as withdrawn.

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to International Standards for which Indian Standards also exists. The corresponding Indian Standards, which are to be substituted, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
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IEC 61936-1:2021, Power installations exceeding 1 kV AC and 1,5 kV DC - Part 1: AC	IS/IEC 61936-1 : 2021 IEC 61936-1:2021 Power installations exceeding 1 kV ac Part 1: Common Rules	Identical
IEC 60060-3, High-voltage test techniques – Part 3: Definitions and requirements for on-site Testing	IS/IEC 60060-3 : 2006 High - Voltage test techniques: Part 3 definitions and requirements for on - Site testing	Identical
IEC 60519-1:2020, Safety in installations for electroheating and electromagnetic processing – Part 1: General requirements	IS/IEC 60519-1 : 2020 IEC 60519-1: 2020 Safety In Installations For Electroheating And Electromagnetic Processing - Part 1: General Requirements	Identical

The technical committee has reviewed the provisions of the following international standards referred in this adopted standard and decided that they are acceptable for use in conjunction with this standard.

<i>International Standard</i>	<i>Title</i>
ISO 13577-1:2016	Industrial furnaces and associated processing equipment – Safety – Part 1: General requirements
ISO 13578:2017	Industrial furnaces and associated processing equipment – Safety requirements for machinery and equipment for production of steel by electric arc furnaces

Only the English language text has been retained while adopting it in this Indian Standard, and as such, the page numbers given here are not the same as in the IEC Publication.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated expressing the result of a test or analysis shall be rounded off in accordance with IS 2: 2022 ‘Rules for rounding of numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Note: The technical content of the document is not available on website. For details, please refer the corresponding IEC 60519-4: 2021 or kindly contact:

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