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*Draft Indian Standard*

**INSULATED BUSHINGS – GUIDE FOR THE INTERPRETATION OF DISSOLVED GAS ANALYSIS (DGA) IN BUSHINGS WHERE OIL IS THE IMPREGNATING MEDIUM OF THE MAIN INSULATION (GENERALLY PAPER)**

Last date for comments – 14 November 2021

Electrical Insulators and Accessories Sectional Committee, ETD 06

## NATIONAL FOREWORD

*(Formal clauses to be added later)*

This draft Indian Standard is identical with IEC 61464:1998 + COR1:2003 ‘Insulated bushings – Guide for the interpretation of dissolved gas analysis (DGA) in bushings where oil is the impregnating medium of the main insulation (generally paper)’ issued by the International Electrotechnical Commission (IEC).

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

- a) Wherever the words ‘International Standard’ appears 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>
IEC 60137:1995 Insulated bushings for alternating voltages above 1 000 V	IS/IEC 60137 : 2017 Insulated bushings for alternating voltages above 1 000 V	Identical with IEC 60137 : 2017
IEC 60567:1992 Guide for the sampling of gases and of oil from oil-filled electrical equipment and for the analysis of free and dissolved gases	IS 9434: 2019 Oil-filled electrical equipment — Sampling of gases and analysis of free and dissolved gases — Guidance ( <i>second revision</i> )	Identical with IEC 60567 : 2011

IEC 60599:1978 Interpretation of the analysis of gases in transformers and other oil-filled electrical equipment in service 1	IS 10593 : 2018 Mineral oil-filled electrical equipment in service — Guidance on the interpretation of dissolved and free gases analysis ( <i>third revision</i> )	Identical with IEC 60599 : 2015
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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>
IEC 60296:1982	Specification for unused mineral insulating oils for transformers and switchgear
IEC 60867:1993	Insulating liquids – Specifications for unused liquids based on synthetic aromatic hydrocarbons

Only 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 International Standard.

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, shall be rounded off in accordance with IS 2: 1960 'Rules for rounding off numerical values (revised)'. 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 61464:1998 + COR1:2003 or kindly contact:

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