

Indian Standard

SYNTHETIC ORGANIC ESTERS FOR ELECTRICAL PURPOSES — GUIDE FOR MAINTENANCE OF TRANSFORMER ESTERS IN EQUIPMENT

1 Scope

This International Standard is a guide to the maintenance of synthetic organic esters, originally complying with the requirements of IEC 1099, in transformers with rated voltages up to 35 kV. It is intended to assist the equipment operator in assessing the quality of the liquid during use in the equipment and maintaining it in a serviceable condition.

Methods for reconditioning ester transformer liquid are outlined.

This standard deals only with ester liquid used in equipment where liquid sampling is practicable and which has not previously been filled with any other liquid.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 567: 1992, *Guide for the sampling of gases and of oil from oil-filled electrical equipment and for the analysis of free and dissolved gases*

IEC 599 : 1978, *Interpretation of the analysis of gases in transformers and other oil-filled electrical equipment in service*

IEC 1099 : 1992, *Specifications for unused synthetic organic esters for electrical purposes*