

AS ELECTROTECH

Kolkata

Transformer Oil Acidity Test Kit



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Transformer Oil Acidity Test Kit

Determination of Acidity of Transformer Oil

(This kit is developed following the tests recommended by the Central Power Research Institute, Bangalore)

Introduction –

The acid content of transformer oil is determined during service to prevent any damage due to corrosion to those parts of the transformer which remain immersed in the oil or just above the oil level. The checking up of acidity is generally restricted to transformer oil only; as the rate of acid development in switchgear oil is relatively very low.

The determination of acidity of transformer oils is normally carried out in well equipped laboratory under proper technical supervision. It is noticed that in our country most of the Electricity Undertakings do not possess analytical facilities and the procedure of removing samples of oil from transformers and sending them to various testing organization becomes difficult and time consuming. Also in cases where a large number of transformers are spread over a wide area (particularly distribution transformers) maintenance work is often neglected due to reasons of economy. This may lead to operational troubles and reduction in life of the equipment.

To overcome some of these problems, a new test and a portable kit for rapidly determining the acid content of insulating oils was developed at the Central Power Research Institute, Bangalore. This test is based on the fact that all acids produced by the oxidation of mineral oils are soluble in ethyl alcohol and can be extracted from the oil by it. If these extracted acids are treated with a fixed quantity of a suitable alkali the resulting mixture would be acidic, neutral or alkaline depending upon the amount of acids present.

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