



ELECTRICAL OIL SERVICES LTD

INSULATING OIL ACIDITY TESTING SOLUTION

DS2841 29/08/2007

DESCRIPTION

Acidity Testing Solution is produced to enable a simple estimation of the acidity of insulating oils to be carried out on site.

APPLICATION

It is composed of a solvent miscible with the insulating oil, together with a fixed proportion of alkaline reagent and a colour indicator.

The method of test, given in detail over page, is straightforward and provides a go/no go indication of the approximate acidity level of the oil concerned. While not intended for precise determinations, the solution can be used to obtain a more accurate result by making additions of only one ml at a time, and reading the result from a graph based on the figures given on the next page.

However, any cases of doubt should always be referred to a properly equipped Laboratory, such as the one operated by Electrical Oil Services Ltd.

Note

The solvent used in this product is HIGHLY FLAMMABLE.
Please consult the material safety data sheet for further information.

The shelf life of Acidity Testing Solution should be considered as 4 months.

**Health and Safety information sheets are available for all Electrical Oil Services Ltd products from the address below:
Electrical Oil Services Ltd, PO Box 79, Bridges Road, Stanlow Works, Ellesmere Port, Cheshire, CH65 4WD.
Telephone: Orders/Enquiries (0845) 6021003, Fax (0845) 6021004**

All reasonable care has been taken to ensure that the information contained in this publication is accurate as at the date of printing. It should be noted however that the information above may be affected by changes occurring subsequent to the date of printing in the blend formulation or methods of application of any of the products referred to or in the requirements of any specification approval relating to any such products.

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TEST METHOD

5. Pour 40ml of the oil into a 100ml measuring cylinder and add blue test solution, 5ml at a time.
6. After each 5ml addition of test solution, stopper the cylinder, shake well, and observe whether the resulting colour is yellow or blue.
3. Continue the addition until the blue colour is maintained.
4. The approximate acidity in mgKOH/g oil can be read off from the table below.
5. For intermediate acidity levels modify sample size/test solution quantity in accordance with the table below.

ml of test solution	5	10	15	20
Acidity of oil (mgKOH/g) using 10 ml sample	0.4	0.8	1.2	1.6
Acidity of oil (mgKOH/g) using 20 ml sample	0.2	0.4	0.6	0.8
Acidity of oil (mgKOH/g) using 30 ml sample	0.15	0.3	0.45	0.6
Acidity of oil (mgKOH/g) using 40 ml sample	0.1	0.2	0.3	0.4

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