

Australian Standard[®]

Insulating liquids

**Method 2.8: Test methods—
Determination of water in oil-
impregnated paper and pressboard by
automatic coulometric Karl Fischer
titration
(IEC 60814, Ed. 2.0 (1997) MOD)**



This Australian Standard® was prepared by Committee EL-008, Power Transformers. It was approved on behalf of the Council of Standards Australia on 7 August 2008. This Standard was published on 30 October 2008.

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 - Australian Chamber of Commerce and Industry
 - Australian Greenhouse Office, Department of the Environment, Water, Heritage and the Arts
 - Australian Industry Group
 - Australian Institute of Petroleum Ltd
 - Electricity Engineers Association, New Zealand
 - Energy Efficiency and Conservation Authority, New Zealand
 - Energy Networks Association
 - Engineers Australia
 - Testing Interests (Australia)
-

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Insulating liquids

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pressboard by automatic coulometric Karl Fischer titration
(IEC 60814, Ed. 2.0 (1997) MOD)**

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-008, Power Transformers. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide manufacturers and users of insulating liquids and oil-impregnated cellulosic insulation with methods of determining the water content by coulometrically generated Karl Fischer reagent. The methods for unused insulating liquids are applicable to water concentrations greater than 2 mg/kg. The methods for oil-impregnated cellulosic material determine water content over the range 0.1% to 20% by mass.

Requirements for Quality Assurance are given in Annex ZA.

This Standard is an adoption with national modifications and has been reproduced from IEC 60814, Ed. 2.0 (1997), *Insulating liquids—Oil-impregnated paper and pressboard—Determination of water by automatic coulometric Karl Fischer titration*, and has been varied as indicated to take account of Australian conditions.

Variations to IEC 60814, Ed.2.0 (1997) are indicated at the appropriate places throughout this Standard. Strike-through (~~example~~) identifies IEC text, tables and figures that, for the purposes of this Australian Standard, are deleted. Where text, tables or figures are added, each is set in its proper place and identified by shading (example). Added figures are not themselves shaded but are identified by a shaded border. All changes are listed in Annex ZZ.

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