

Symposium on

INSULATING OILS (1957)

Seventh in a Series of Symposiums Covering Laboratory and Field Evaluation of Liquid Electrical Insulation



Published by the
AMERICAN SOCIETY FOR TESTING MATERIALS
1916 Race St., Philadelphia 3, Pa.

ASTM Special Technical Publication No. 218

SYMPOSIUM ON INSULATING OILS

Seventh in a Series of Symposiums Covering

Laboratory and Field Evaluation of

Liquid Electrical Insulation

Presented at a meeting of
Committee D-9 on Electrical Insulating Materials
Roanoke, Virginia, February 26, 1957
AMERICAN SOCIETY FOR TESTING MATERIALS



ASTM Special Technical Publication No. 218

Price \$1.75; to Members \$1.35

Published by the AMERICAN SOCIETY FOR TESTING MATERIALS 1916 Race St., Philadelphia 3, Pa. COPYRIGHT, 1957

BY THE

AMERICAN SOCIETY FOR TESTING MATERIALS

FOREWORD

This Symposium, sponsored by Subcommittee IV on Liquid Insulation of ASTM Committee D-9 on Electrical Insulating Materials, was presented on February 26, 1957, during the ASTM Committee D-9 meetings in Roanoke, Virginia. It was the seventh session in a series of symposia on insulating oils, presented under the sponsorship of Subcommittee IV over a period of about eleven years.

The first two symposia were published in ASTM BULLETINS No. 146, May 1947, and No. 149, December, 1947. The proceedings of the third, fourth, fifth and sixth symposia were printed as ASTM Special Technical Publications Numbers 95, 135, 152 and 172, respectively.

Note.—The Society is not responsible, as a body, for the statements and opinions advanced in this publication.

CONTENTS

P	AGE
Introduction—L. B. Schofield	1
Evaluation of Laboratory Tests as Indicators of the Service Life of Un-	
inhibited Electrical Insulating Oils-T. A. McConnell	3
The Use of Solid and Liquid Catalysts for the Accelerated Aging Testing of	
Transformer Oil—Edward L. Raab	16
General Discussion	32

THIS PUBLICATION is one of many issued by the American Society for Testing Materials in connection with its work of promoting knowledge of the properties of materials and developing standard specifications and tests for materials. Much of the data result from the voluntary contributions of many of the country's leading technical authorities from industry, scientific agencies, and government.

Over the years the Society has published many technical symposiums, reports, and special books. These may consist of a series of technical papers, reports by the ASTM technical committees, or compilations of data developed in special Society groups with many organizations cooperating. A list of ASTM publications and information on the work of the Society will be furnished on request.

THIS PUBLICATION is one of many issued by the American Society for Testing Materials in connection with its work of promoting knowledge of the properties of materials and developing standard specifications and tests for materials. Much of the data result from the voluntary contributions of many of the country's leading technical authorities from industry, scientific agencies, and government.

Over the years the Society has published many technical symposiums, reports, and special books. These may consist of a series of technical papers, reports by the ASTM technical committees, or compilations of data developed in special Society groups with many organizations cooperating. A list of ASTM publications and information on the work of the Society will be furnished on request.