

THERMAL INSULATIONS IN THE PETROCHEMICAL INDUSTRY

STP 581



AMERICAN SOCIETY FOR TESTING AND MATERIALS

THERMAL INSULATIONS IN THE PETROCHEMICAL INDUSTRY

A symposium sponsored by
ASTM Committee C-16 on Thermal
and Cryogenic Insulating Materials in
cooperation with the American Institute
of Chemical Engineers, 12 March 1974,
Tulsa, Okla.

Reprinted from the August 1974 issue of
Chemical Engineering Progress (Vol. 70, No. 8)

ASTM SPECIAL TECHNICAL PUBLICATION 581
F. S. Govan, symposium chairman
J. S. Kummins, symposium cochairman

List price \$3.25
04-581000-10



AMERICAN SOCIETY FOR TESTING AND MATERIALS
1916 Race Street, Philadelphia, Pa. 19103

Library of Congress Catalog Card number: 75-2515

NOTE

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

**Printed in Gibbsboro, New Jersey
March 1975**

Foreword

The Symposium on Thermal Insulations in the Petrochemical Industry was held on 12 March 1974 in Tulsa, Okla. It was sponsored by the American Society for Testing and Materials' (ASTM) Committee C-16 on Thermal and Cryogenic Insulating Materials in cooperation with the American Institute of Chemical Engineers (AIChE) and was presented during a meeting of AIChE. F.A. Govan, York Research Corp., presided as the symposium chairman, and J.S. Kummins, Dow Corning Corp., served as the cochairman.

Related ASTM Publications

Heat Transmission Measurements in Thermal Insulations, STP 544 (1974), \$30.75,
04-54400-10

Supplement to the Bibliography and Abstracts on Thermostat Metals, STP 288C (1974),
\$4.25, 04-288030-40

Manual on the Use of Thermocouples in Temperature Measurement, STP 470A (1974),
\$17.50, 04-470010-40

Contents

Introduction	1
Criteria for Installing Systems in Petrochemical Plants – <i>W.C. Turner</i>	3
Protection of Thermal Insulation – <i>J.B. Marks and K.D. Holton</i>	8
Economic Thickness of Thermal Insulation – <i>J.M. Barnhart</i>	12
Foam Insulation for Tanks and Vessels – <i>C.S. Foster</i>	17
Protective Coatings for Foam Insulation – <i>J.C. Smith and J.S. Kummins</i>	19