

# Insulation Material Steady-State Thermal Transmission Property Test Report

Report number: OTM2303001



**Client:**

**Company name**

Address line 1

Address line 2

Address line 3

**Laboratory:**

**Optical & Thermal Testing Laboratory**

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[View laboratory profile](#)

The Optical & Thermal Testing Laboratory of OTM Solutions Pte Ltd is accredited to ISO/IEC 17025 under the Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme (SAC-SINGLAS, Certificate No: LA-2016-0610-G).

The results reported herein have been performed in accordance with the terms of accreditation under the Singapore Accreditation Council.

**Report number:**

OTM2303001

**Job description:**

Steady-state thermal transmission property testing of 1 piece of mineral wool sample.

The test sample was delivered by the client and received by OTM on 01/03/2023 and was tested on 01/03/2023.

**Approved signatory:**

Dr. Chen Fangzhi

Laboratory Manager (Tel: +65 9187 7666; Email: [chen.fz@otm.sg](mailto:chen.fz@otm.sg))

**Date of test:**

01/03/2023

**Date of report:**

01/03/2023

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## Test method description

<b><u>Methods:</u></b>	<ul style="list-style-type: none"><li>• ASTM C518-21 Standard test method for steady-state thermal transmission properties by means of the heat flow meter apparatus</li></ul>
<b><u>Instruments</u></b>	<ul style="list-style-type: none"><li>• Thermtest HFM-100 heat flow meter</li><li>• Thermal conductivity reference material: NIST SRM 1450d, fibrous-glass board</li></ul>
<b><u>Calculation software</u></b>	<ul style="list-style-type: none"><li>• N/A</li></ul>
<b><u>Estimated uncertainties</u></b>	<ul style="list-style-type: none"><li>• Thermal conductivity: <math>\pm 5\%</math> of relative uncertainty</li><li>• The uncertainties were estimated at a level of confidence of approximately 95%, with a coverage factor <math>k = 2</math></li><li>• The estimated uncertainties do not include uncertainties caused by sample-to-sample variations and sample non-uniformities</li></ul>
<b><u>Notes</u></b>	<ul style="list-style-type: none"><li>• The mean temperature of the test is 20 °C.</li><li>• The sample dimension and density are nominal values.</li></ul>


## Disclaimer

- The test report shall not be reproduced except in full, without written approval of the laboratory.
- The sampling was not performed by the laboratory. The test results relate only to the samples received and tested.
- The sample description information was declared by the client and it may affect the validity of the results.
- The test report is issued subject to the “Testing Service Terms and Conditions” annexed to OTM official quotation and on request from OTM.

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<b><u>Sample ID</u></b>	2303001
<b><u>Sample description</u></b>	Sample description
<b><u>Dimension</u></b>	5 cm × 30 cm × 30 cm
<b><u>Density</u></b>	80 kg/m <sup>3</sup>
<b><u>Test results</u></b>	At mean temperature of 20 °C:  Thermal conductivity = 0.0380 W/(m·K)
<b><u>Photos</u></b>	 <p>Test sample photos</p>