Insulation Material Steady-State Thermal Transmission Property Test Report

Report number: OTM1910001

Client: Company name
Address line 1
Address line 2
Attention: Name

Laboratory: Optical & Thermal Testing Laboratory
OTM Solutions Pte Ltd
21 Woodlands Close
#07-05 Primz Bizhub
Singapore 737854
Tel: (+65) 6908 0126
WhatsApp: (+65) 8838 1374
Email: info@otm.sg
Web: www.otm.sg

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: OTM1910001

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 01/10/2019 and was tested on 01/10/2019.

Approved signatory: Dr. Chen Fangzhi
Laboctor Manager (Tel: +65 9187 7666; Email: chen.fz@otm.sg)

Date of test: 01/10/2019
Date of report: 01/10/2019
## Test method description

<table>
<thead>
<tr>
<th><strong>Methods:</strong></th>
<th>ASTM C518-17 Standard test method for steady-state thermal transmission properties by means of the heat flow meter apparatus</th>
</tr>
</thead>
</table>
| **Instruments** | Thermettest HFM-100 heat flow meter  
Thermal conductivity reference material: NIST SRM 1450d, fibrous-glass board |
| **Calculation software** | N/A |
| **Estimated uncertainties** | Thermal conductivity: ±5% of relative uncertainty  
The uncertainties were estimated at a level of confidence of approximately 95%, with a coverage factor k = 2  
The estimated uncertainties do not include uncertainties caused by sample-to-sample variations and sample non-uniformities |
| **Notes** | The mean temperature of the test is 20 °C.  
The test sample was compressed during testing, to ensure good thermal contact with the instrument. The thermal conductivity reported is under the compressed testing condition. The thickness of the test sample was 46.0 mm under the testing condition.  
The sample dimension and density are nominal values and are for documentation purposes only. |

## Disclaimer

- The test report shall not be reproduced except in full, without written approval of the laboratory.
- The test results relate only to the sample tested.
- The test report is issued subject to the “Testing Service Terms and Conditions” annexed to OTM official quotation and on request from OTM.
<table>
<thead>
<tr>
<th><strong>Sample ID</strong></th>
<th>1910001</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Client’s reference</strong></td>
<td>Client’s reference</td>
</tr>
<tr>
<td><strong>Dimension</strong></td>
<td>5 cm × 30 cm × 30 cm</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>60 kg/m$^3$</td>
</tr>
<tr>
<td><strong>Test results</strong></td>
<td>At mean temperature of 20 ºC: Thermal conductivity = 0.0380 W/(m·K)</td>
</tr>
<tr>
<td><strong>Pictures</strong></td>
<td>Test sample pictures</td>
</tr>
</tbody>
</table>