**Description**
Owens Corning™ UtiliCore® Insulation products are flexible white blankets designed for high temperature commercial and industrial applications. The pliable, lightweight insulation products offer outstanding thermal performance making it an excellent choice as core insulation for removable and reusable industrial pipe covers.

**Key Features**
- **L** series products are low-binder blankets, while HP5 Mat is a needled blanket with no binder
- Lighter weight than traditional E glass core insulation products at equivalent R-values
- User friendly fibers result in less itch and irritation for installers
- UtiliCore® insulation products may be used in applications from subzero to 1,000°F

  - Exceptional flexibility permits insulation to conform to unconventional surfaces and shapes
  - Excellent conformability behavior allows ease of ability to stuff insulation into the corners of pads
  - Lightweight core insulation permits stitches to be sewn directly through material
  - Certified high recycled content 53%
  - Good tensile strength, resilience and thickness control make UtiliCore® insulation products easy to handle and install
  - Lightweight insulation provides for easy cutting both in shop and in the field

**Product Applications**
Owens Corning™ UtiliCore® insulation products offer outstanding dimensional stability allowing ease of handling in fabrication, assembly and installation of removable and reusable industrial pipe covers.

  - Core Insulation Used in:
    - Industrial Piping System Insulation Covers
    - Valve Insulation Covers
    - Flange Insulation Covers
    - Exchanger Insulation Covers
    - Filter Insulation Covers
    - Flow Meter Insulation Covers
    - Strainer Insulation Covers

**Availability**
- UtiliCore® L Series Insulation 1" and 2" thicknesses
- UtiliCore® HP5 Mat Insulation 1" thickness
- Other thicknesses may be available upon request. Contact your Area Sales Rep for availability

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**Thermal Conductivity**

<table>
<thead>
<tr>
<th>Thickness (inches)</th>
<th>L1</th>
<th>L1.3</th>
<th>L1.8</th>
<th>L2.5</th>
<th>L3.7</th>
<th>HP5 Mat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density (pcf)</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Nominal “k” BTU•hr•ft•°F (R-value = Thickness/K)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>75°F</td>
<td>0.26</td>
<td>0.24</td>
<td>0.23</td>
<td>0.22</td>
<td>0.21</td>
<td>0.21</td>
</tr>
<tr>
<td>300°F</td>
<td>0.51</td>
<td>0.46</td>
<td>0.39</td>
<td>0.35</td>
<td>0.31</td>
<td>0.30</td>
</tr>
<tr>
<td>500°F</td>
<td>0.85</td>
<td>0.75</td>
<td>0.62</td>
<td>0.52</td>
<td>0.44</td>
<td>0.42</td>
</tr>
</tbody>
</table>

**Sound Absorption Coefficient, ASTM C423—Type A Mounting**

<table>
<thead>
<tr>
<th>Product</th>
<th>Thickness (Inches)</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>NRC</th>
<th>SAA</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>1.0</td>
<td>0.09</td>
<td>0.31</td>
<td>0.65</td>
<td>0.85</td>
<td>0.90</td>
<td>0.90</td>
<td>0.70</td>
<td>0.68</td>
</tr>
<tr>
<td>L1.3</td>
<td>1.0</td>
<td>0.17</td>
<td>0.45</td>
<td>0.84</td>
<td>0.94</td>
<td>0.96</td>
<td>0.93</td>
<td>0.80</td>
<td>0.80</td>
</tr>
<tr>
<td>L1.8</td>
<td>1.0</td>
<td>0.13</td>
<td>0.39</td>
<td>0.77</td>
<td>0.94</td>
<td>1.01</td>
<td>0.99</td>
<td>0.80</td>
<td>0.78</td>
</tr>
<tr>
<td>L2.5</td>
<td>1.0</td>
<td>0.08</td>
<td>0.34</td>
<td>0.81</td>
<td>0.98</td>
<td>1.03</td>
<td>1.03</td>
<td>0.80</td>
<td>0.79</td>
</tr>
<tr>
<td>L3.7</td>
<td>1.0</td>
<td>0.10</td>
<td>0.57</td>
<td>1.09</td>
<td>1.17</td>
<td>1.12</td>
<td>1.17</td>
<td>1.00</td>
<td>0.99</td>
</tr>
<tr>
<td>HP5 Mat</td>
<td>1.0</td>
<td>0.13</td>
<td>0.43</td>
<td>0.84</td>
<td>1.05</td>
<td>1.02</td>
<td>0.94</td>
<td>0.85</td>
<td>0.83</td>
</tr>
</tbody>
</table>

1. Thermal Conductivity on core insulation only.
2. Thickness value is nominal. Product control is on thermal conductivity.
3. Nominal samples were measured in accordance with ASTM C 423. These measured absorption coefficients were adjusted to values representative of the product with mean specification properties. While these values are an accurate representation of our product, they are for design approximations only. Production, testing, and application variabilities will alter results. Specific designs should be evaluated in end-use configurations.
# Standards, Codes Compliance

- ASTM C553, Mineral Fiber Blanket Thermal Insulation, Type V - All UtiliCore
- ASTM C1086, Glass Fiber Mechanically Bonded Felt Thermal Insulation (HP5 Mat)
- MIL-I-16411E, Insulation Felt, Thermal, Glass Fiber
- ASTM C795, Thermal Insulation for Use in Contact with Austenitic Stainless Steel
- Nuclear Regulatory Commission Guide 1.36, Non-Metallic Thermal Insulation
- MIL-I-24244D (Ships) Insulation Material with Special Corrosion, Chloride, and Fluoride Requirements
- U.S. Coast Guard Approval No. 164.109, Noncombustible Materials
- ASTM E136, Behavior of Materials in a Vertical Tube Furnace at 750°C (Noncombustible rating)
- Doesn’t contain the fire retardant decabrominated diphenyl ether (decaBDE)

## Physical Property Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>ASTM C411</td>
<td>up to 1000°F (538°C)</td>
</tr>
<tr>
<td>Corrosion Resistance</td>
<td>ASTM C665</td>
<td>Meets requirement</td>
</tr>
<tr>
<td>Fungi Resistance</td>
<td>ASTM C1338</td>
<td>Meets requirements</td>
</tr>
<tr>
<td>Odor</td>
<td>ASTM C1304</td>
<td>No objectionable odor</td>
</tr>
<tr>
<td>Moisture Sorption</td>
<td>ASTM C1104</td>
<td>&lt; 3% by weight</td>
</tr>
<tr>
<td>Composite Surface Burning</td>
<td>ASTM E84, UL 723; and CAN/ULC-S102</td>
<td></td>
</tr>
<tr>
<td>Flame Spread</td>
<td></td>
<td>&lt; 25</td>
</tr>
<tr>
<td>Smoke Developed</td>
<td></td>
<td>&lt; 50</td>
</tr>
</tbody>
</table>

6. The surface burning characteristics of these products have been determined in accordance with ASTM E84, UL 723, and CAN/ULC-S102. These standards should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment, which takes into account all of the factors, which are pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

4. Preproduction qualification testing complete and on file. Chemical analysis of each production lot required for total conformance.

5. Results representative of core insulation only.

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# Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets and enhancing lives. More information can be found at [http://sustainability.owenscorning.com](http://sustainability.owenscorning.com).

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# Certifications and Sustainable Features of Owens Corning UtiliCore® Insulation Products

- Certified by SCS Global Services to contain a minimum of 53% recycled glass content, 31% pre-consumer and 22% post-consumer.
- Certified to meet indoor air quality standards under the stringent GREENGUARD Certification Program, and the GREENGUARD Gold Certification.

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4. Preproduction qualification testing complete and on file. Chemical analysis of each production lot required for total conformance.

5. Results representative of core insulation only.

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# Disclaimer of Liability

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SCS Global Services provides independent verification of recycled content in building materials and verifies recycled content claims made by manufacturers. For more information, visit [www.SCSglobalservices.com](http://www.SCSglobalservices.com).

GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit [ul.com/gg](http://ul.com/gg).