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Micro-Lok® HP
Jacketed High-Performance Fiberglass Pipe Insulation

Micro-Lok® HP is a pre-formed fiberglass pipe insulation with a factory-applied, vapor-retarder ASJ jacket with a self-seal lap. It is manufactured using an in-line manufacturing process, creating a highly consistent fiberglass core for reliable, optimized performance during both installation and operation. Micro-Lok HP can be used to insulate hot or cold pipe systems in concealed or exposed applications for commercial, power, or process lines. If used outdoors, it should be covered with a weather-protective jacketing.

Operating Temperature Limit: 0°F to 850°F (-18°C to 454°C)

THERMAL CONDUCTIVITY ("K")

<table>
<thead>
<tr>
<th>Mean °F</th>
<th>75</th>
<th>100</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature °C</td>
<td>24</td>
<td>38</td>
<td>93</td>
<td>149</td>
<td>204</td>
<td>260</td>
</tr>
<tr>
<td>Btu/(hr•ft²•°F)</td>
<td>0.23</td>
<td>0.24</td>
<td>0.28</td>
<td>0.34</td>
<td>0.44</td>
<td>0.55</td>
</tr>
<tr>
<td>W/(m°C)</td>
<td>0.034</td>
<td>0.035</td>
<td>0.040</td>
<td>0.049</td>
<td>0.063</td>
<td>0.079</td>
</tr>
</tbody>
</table>

AVAILABILITY

3-Foot (0.92 m) Sections
IPS: ½" - 24" (13 mm - 610 mm)*
CT: 5⁄8" - 6 1⁄8" (16 mm - 156 mm)

Micro-Lok HP is available in thicknesses of:
½" - 5" (13 mm - 127 mm)*
in ½" (13 mm) increments.

*Check for availability with your Customer Advocate.

Micro-Lok® HP Ultra
High-Performance Fiberglass Pipe Insulation with a Poly-Coated ASJ Jacket

Micro-Lok® HP Ultra is a pre-formed fiberglass pipe insulation with a factory-applied, polyurethane-coated ASJ jacket with a self-seal lap. The jacket is designed to be able to withstand intermittent, temporary exposure to transient moisture, and it may be wiped clean with a damp cloth should it become dirty. Micro-Lok HP Ultra is manufactured using an in-line manufacturing process, creating a highly consistent fiberglass core for reliable, optimized performance during both installation and operation. The insulation may be used to insulate hot or cold pipe systems in concealed or exposed applications for commercial, power, or process lines. If used outdoors, it should be covered with a weather-protective jacketing.

Operating Temperature Limit: 0°F to 850°F (-18°C to 454°C)

THERMAL CONDUCTIVITY ("K")

<table>
<thead>
<tr>
<th>Mean °F</th>
<th>75</th>
<th>100</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature °C</td>
<td>24</td>
<td>38</td>
<td>93</td>
<td>149</td>
<td>204</td>
<td>260</td>
</tr>
<tr>
<td>Btu/(hr•ft²•°F)</td>
<td>0.23</td>
<td>0.24</td>
<td>0.28</td>
<td>0.34</td>
<td>0.44</td>
<td>0.55</td>
</tr>
<tr>
<td>W/(m°C)</td>
<td>0.034</td>
<td>0.035</td>
<td>0.040</td>
<td>0.049</td>
<td>0.063</td>
<td>0.079</td>
</tr>
</tbody>
</table>

AVAILABILITY

3-Foot (0.92 m) Sections
IPS: ½" - 24" (13 mm - 610 mm)*
CT: ¼" - 6 1⁄8" (16 mm - 156 mm)

Micro-Lok HP is available in thicknesses of:
½" - 5" (13 mm - 127 mm)*
in ½" (13 mm) increments.

*Check for availability with your Customer Advocate.

Micro-Lok® HP Plain
Unjacketed High-Performance Fiberglass Pipe Insulation

Micro-Lok® HP Plain is a pre-formed fiberglass pipe insulation manufactured using a state-of-the-art, in-line manufacturing process, creating a highly consistent fiberglass core for reliable, optimized performance during both installation and operation. The insulation may be used on hot or cold pipe systems in concealed or exposed applications for commercial, power, or process lines. When used on cold or outdoor applications, it must be sealed with a vapor-retarder jacket and/or weather-protective jacketing.

Operating Temperature Limits: 0°F to 850°F (-18°C to 454°C)

THERMAL CONDUCTIVITY ("K")

<table>
<thead>
<tr>
<th>Mean °F</th>
<th>75</th>
<th>100</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature °C</td>
<td>24</td>
<td>38</td>
<td>93</td>
<td>149</td>
<td>204</td>
<td>260</td>
</tr>
<tr>
<td>Btu/(hr•ft²•°F)</td>
<td>0.23</td>
<td>0.24</td>
<td>0.28</td>
<td>0.34</td>
<td>0.44</td>
<td>0.55</td>
</tr>
<tr>
<td>W/(m°C)</td>
<td>0.034</td>
<td>0.035</td>
<td>0.040</td>
<td>0.049</td>
<td>0.063</td>
<td>0.079</td>
</tr>
</tbody>
</table>

AVAILABILITY

3-Foot (0.92 m) Sections
IPS: ½" - 24" (13 mm - 610 mm)*
CT: ¼" - 6 1⁄8" (16 mm - 156 mm)

Micro-Lok HP is available in thicknesses of:
½" - 5" (13 mm - 127 mm)*
in ½" (13 mm) increments.

*Check for availability with your Customer Advocate.
Micro-Lok®
Jacketed Fiberglass Pipe Insulation

Micro-Lok® is a pre-formed fiberglass pipe insulation with a factory-applied, vapor-barrier ASJ jacket. It is manufactured using a flame-attenuated fiberization process that delivers excellent thermal properties and an easy-to-install core. Micro-Lok has been a trusted mechanical insulation solution for more than 40 years.

**Operating Temperature Limits:** 0°F to 850°F (-18°C to 454°C)

### THERMAL CONDUCTIVITY ("K")

<table>
<thead>
<tr>
<th>Type</th>
<th>in</th>
<th>mm</th>
<th>Btu/in/(hr•f2•°F)</th>
<th>W/m•°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>812</td>
<td>1½-4</td>
<td>38–102</td>
<td>0.24</td>
<td>0.035</td>
</tr>
<tr>
<td>813</td>
<td>1½-4</td>
<td>38–102</td>
<td>0.23</td>
<td>0.033</td>
</tr>
<tr>
<td>814</td>
<td>1–4</td>
<td>25–102</td>
<td>0.23</td>
<td>0.033</td>
</tr>
<tr>
<td>815</td>
<td>1–2½</td>
<td>25–64</td>
<td>0.22</td>
<td>0.032</td>
</tr>
<tr>
<td>817</td>
<td>1–2</td>
<td>25–51</td>
<td>0.22</td>
<td>0.032</td>
</tr>
</tbody>
</table>

### SPECIFICATION COMPLIANCE
- ASTM C547, Type I
- ASTM C585
- ASTM C1136
- MIL-DTL-32585
- MIL-PRF-22344
- MIL-DTL-24244
- NRC1.36; ASTM C795
- ASTM E84, FHC 25/50;
- CAN/ULC S102.2

**800 Series Spin-Glas®**
Fiberglass Duct and Equipment Insulation

800 Series Spin-Glas® is a fiberglass equipment and external duct insulation offered in a variety of different densities. The board is available plain or with a vapor-retarder FSK, AP, or Ultra (poly-top) facing. The insulation can be readily cut with a knife and secured in place with mechanical fasteners and/or adhesives.

**Operating Temperature Limit:**
- Unfaced: 450°F (232°C)
- Faced: unfaced side 450°F (232°C); faced side 150°F (66°C)

### THERMAL CONDUCTIVITY ("K") AT 75°F

<table>
<thead>
<tr>
<th>Type</th>
<th>in</th>
<th>mm</th>
<th>Btu/in/(hr•f2•°F)</th>
<th>W/m•°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>812</td>
<td>1½–4</td>
<td>38–102</td>
<td>0.24</td>
<td>0.035</td>
</tr>
<tr>
<td>813</td>
<td>1½–4</td>
<td>38–102</td>
<td>0.23</td>
<td>0.033</td>
</tr>
<tr>
<td>814</td>
<td>1–4</td>
<td>25–102</td>
<td>0.23</td>
<td>0.033</td>
</tr>
<tr>
<td>815</td>
<td>1–2½</td>
<td>25–64</td>
<td>0.22</td>
<td>0.032</td>
</tr>
<tr>
<td>817</td>
<td>1–2</td>
<td>25–51</td>
<td>0.22</td>
<td>0.032</td>
</tr>
</tbody>
</table>

### SOUND-ABSORPTION COEFFICIENTS

**ASTM C423 - Type “A” Mounting**

<table>
<thead>
<tr>
<th>Type</th>
<th>in</th>
<th>mm</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>NRC</th>
</tr>
</thead>
<tbody>
<tr>
<td>812</td>
<td>1.0</td>
<td>25</td>
<td>0.07</td>
<td>0.24</td>
<td>0.63</td>
<td>0.87</td>
<td>1.00</td>
<td>1.02</td>
<td>0.70</td>
</tr>
<tr>
<td>813</td>
<td>1.0</td>
<td>25</td>
<td>0.08</td>
<td>0.27</td>
<td>0.69</td>
<td>0.95</td>
<td>1.05</td>
<td>1.02</td>
<td>0.75</td>
</tr>
<tr>
<td>814</td>
<td>1.0</td>
<td>25</td>
<td>0.06</td>
<td>0.29</td>
<td>0.75</td>
<td>0.99</td>
<td>1.04</td>
<td>1.02</td>
<td>0.75</td>
</tr>
<tr>
<td>815</td>
<td>1.0</td>
<td>25</td>
<td>0.03</td>
<td>0.32</td>
<td>0.80</td>
<td>1.04</td>
<td>1.05</td>
<td>1.05</td>
<td>0.80</td>
</tr>
<tr>
<td>817</td>
<td>1.0</td>
<td>25</td>
<td>0.10</td>
<td>0.35</td>
<td>0.85</td>
<td>1.04</td>
<td>1.05</td>
<td>1.03</td>
<td>0.80</td>
</tr>
</tbody>
</table>

**1000 Series Spin-Glas®**
Fiberglass Equipment Board Insulation

1000 Series Spin-Glas® is a 3 pcf, semi-rigid fiberglass board insulation designed for industrial applications. The controlled manufacturing process and unique binder result in improved mechanical properties and higher application temperatures. Typical applications include furnaces, boilers, heated vessels, ducts, tanks, and other heating equipment.

**Operating Temperature Limit:** 850°F (454°C)

### THERMAL CONDUCTIVITY ("K")

<table>
<thead>
<tr>
<th>Mean</th>
<th>°F</th>
<th>75</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24</td>
<td>149</td>
<td></td>
</tr>
<tr>
<td>Btu/in/(hr•f2•°F)</td>
<td>0.23</td>
<td>0.33</td>
<td></td>
</tr>
<tr>
<td>W/m•°C</td>
<td>0.033</td>
<td>0.048</td>
<td></td>
</tr>
</tbody>
</table>

### SPECIFICATION COMPLIANCE
- ASTM C612, Type II
- ASTM E84, FHC 25/50
- ASTM E136 (noncombustible)
- ASTM C612
- NRC1.36, ASTM C795
- CAN/ULC S102-M88
- CAN/SB S1–GP–10M
- MIL-DTL-32585
- MIL-I-22023, Type I & II, Class 6 Material
Precipitator Spin-Glas®
Fiberglass Board Insulation

Precipitator Spin-Glas® is a semi-rigid, lightweight industrial equipment fiberglass insulation specifically designed to insulate precipitators, baghouses, scrubbers, ducts, and breechings in power-generation plants. It can also be used to insulate boilers, heaters, ovens, and other industrial equipment. Precipitator Spin-Glas is available in a variety of standard and custom sizes and is an excellent choice for applications that do not require higher density insulation.

Operating Temperature Limit: 850°F (454°C)

THERMAL CONDUCTIVITY ("K")

<table>
<thead>
<tr>
<th>Mean Temperature °F</th>
<th>75</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Btu/(hr<em>ft</em>°F) W/m*°C</td>
<td>0.23</td>
<td>0.34</td>
</tr>
</tbody>
</table>

SOUND-ABSORPTION COEFFICIENTS

ASTM C423 - Type “A” Mounting

<table>
<thead>
<tr>
<th>Thickness (in mm)</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>NRC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>0.08</td>
<td>0.32</td>
<td>0.68</td>
<td>0.95</td>
<td>1.06</td>
<td>1.04</td>
<td>0.75</td>
</tr>
<tr>
<td>2.0</td>
<td>0.20</td>
<td>0.85</td>
<td>1.11</td>
<td>1.11</td>
<td>1.07</td>
<td>1.07</td>
<td>1.05</td>
</tr>
<tr>
<td>3.0</td>
<td>0.52</td>
<td>1.23</td>
<td>1.16</td>
<td>1.09</td>
<td>1.07</td>
<td>1.10</td>
<td>1.15</td>
</tr>
<tr>
<td>4.0</td>
<td>0.80</td>
<td>1.23</td>
<td>1.10</td>
<td>1.09</td>
<td>1.08</td>
<td>1.08</td>
<td>1.10</td>
</tr>
</tbody>
</table>

AVAILABILITY

<table>
<thead>
<tr>
<th>Thickness (in mm)</th>
<th>1-4 (½” inc.)</th>
<th>25-102 (13 mm inc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>24, 48</td>
<td>305, 610</td>
</tr>
<tr>
<td>Length</td>
<td>48, 96</td>
<td>1219, 2438</td>
</tr>
</tbody>
</table>

Fabrication Board
Semi-Rigid Fiberglass Insulation Boards

Fabrication Board is a fiberglass insulation that is designed to be used to fabricate custom pipe and tank insulation in routine commercial and industrial heating and process equipment applications. Fabrication board is light, strong, and resilient for easy fabrication and installation, with two different temperature ratings. Typical applications include pipe and tank insulation.

Operating Temperature Limit: 850°F (454°C)

THERMAL CONDUCTIVITY ("K")

<table>
<thead>
<tr>
<th>Mean Temperature °F</th>
<th>75</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Btu/(hr<em>ft</em>°F) W/m*°C</td>
<td>0.23</td>
<td>0.33</td>
</tr>
</tbody>
</table>

AVAILABILITY

<table>
<thead>
<tr>
<th>Density</th>
<th>Thickness</th>
<th>Temp. Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>pcf</td>
<td>in mm</td>
</tr>
<tr>
<td>3005</td>
<td>3.0</td>
<td>48</td>
</tr>
<tr>
<td>3008</td>
<td>3.0</td>
<td>48</td>
</tr>
</tbody>
</table>

XSPECT® ISOfoam APF Board
Polyisocyanurate Foam Board Insulation

XSPECT® ISOfoam APF Board is a polyisocyanurate foam board designed to insulate rooftop ducts and HVAC equipment. The closed-cell foam core is bonded to a foil facer on both sides. It is a highly versatile insulation that can be used in a variety of mechanical and OEM applications, including rooftop ducts, appliances, HVAC equipment, refrigerated transportation, storage vessels, and railcars. XSPECT ISOfoam APF board offers one of the highest R-values of any rigid insulation available, making it ideal for both hot and cold applications.

Service Temperature Range: -100°F to 250°F (-73°C to 121°C)

AVAILABILITY & THERMAL PERFORMANCE

R-Value (Board Size [ft] 4x8, 4x10*)

<table>
<thead>
<tr>
<th>Thickness (inches)</th>
<th>R-Value</th>
<th>RSI-Value</th>
<th>Design LTTR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>6.0</td>
<td>25</td>
<td>1.36</td>
</tr>
<tr>
<td>1.50</td>
<td>9.3</td>
<td>38</td>
<td>1.63</td>
</tr>
<tr>
<td>2.00</td>
<td>13</td>
<td>51</td>
<td>2.21</td>
</tr>
<tr>
<td>2.50*</td>
<td>16</td>
<td>64</td>
<td>2.79</td>
</tr>
<tr>
<td>3.00</td>
<td>19</td>
<td>76</td>
<td>3.36</td>
</tr>
<tr>
<td>3.50*</td>
<td>22</td>
<td>89</td>
<td>3.94</td>
</tr>
<tr>
<td>4.00*</td>
<td>26</td>
<td>102</td>
<td>4.52</td>
</tr>
</tbody>
</table>

* Made to Order

1 Aged R-value at 75°F in accordance with ASTM C1289

SPECIFICATION COMPLIANCE

ASTM C1289
- Class 1, Type 1
- CAN/ULC S704
  - Class 1, Type 1
Micro-Flex®
Large-Diameter Fiberglass Pipe and Tank Wrap

Micro-Flex® is a fiberglass wrap insulation for large diameter pipes and tanks. It is an alternative to pre-formed insulation. The fiber orientation of Micro-Flex enhances both the compressive strength and thermal performance when compared to conventional pipe and tank insulation. Micro-Flex rolls can be cut to size on-the-job and are available with an FSK or AP vapor-retarder facing. It provides a single solution to a variety of field applications.

Operating Temperature Limit: 0°F to 850°F (-18°C to 454°C)

HTB 26 Spin-Glas®
High-temperature Formaldehyde-Free™ Fiberglass Blanket Insulation

HTB 26 Spin-Glas® is a lightweight, fiberglass blanket insulation designed for industrial applications. HTB 26 Spin-Glas is an excellent choice for applications requiring a low-density blanket. In addition, its high tensile strength provides resistance to damage during installation. This flexible blanket is ideal for heated, irregular surfaces.

Operating Temperature Limit: 1000°F (538°C)

Microlite® FSK Duct Wrap
Formaldehyde-free™ Fiberglass Duct Wrap

Microlite® FSK is a Formaldehyde-free™ fiberglass duct wrap that comes with an FSK vapor barrier facing. Microlite FSK is designed to wrap rectangular and spiral ducts, offering improved thermal control.

Operating Temperature Limit: 250°F (121°C)
Microlite® Black PSK and White PSK Duct Wrap
Formaldehyde-free™ Fiberglass Duct Wrap
Microlite® PSK is a Formaldehyde-free™ fiberglass duct wrap that comes with a white or a black PSK vapor-barrier facing. The facing is offered without print for aesthetic purposes and is designed to be used in exposed applications. Microlite PSK is designed to wrap rectangular and spiral ducts, offering improved thermal control and aesthetic appeal.

Operating Temperature Limit: 250°F (121°C)

Matching PSK Tape available.

Incombustible Hullboard
Fiberglass Board Insulation
Incombustible Hullboard is a semi-rigid, fire-resistant fiberglass board insulation that provides thermal and acoustical control on naval and merchant vessels and drilling rig platforms. The resilient, semi-rigid insulation has a smooth surface designed specifically for facing adhesion, resulting in a clean, finished appearance. Incombustible Hullboard is US Coast Guard approved and complies with US Navy and Nuclear Regulatory Commission product standards.

Operating Temperature Limit: 450°F (232°C)

Incombustible Microlite®
Fiberglass Thermal and Acoustical Blanket
Incombustible Microlite® is a fiberglass blanket insulation that offers excellent acoustical and thermal control for use on a variety of marine applications. It is the recommended solution when design parameters prohibit the use of a rigid product. Incombustible Microlite is manufactured using our flame-attenuated process, delivering a product that is resilient and lightweight. The insulation is US Coast Guard approved and complies with US Navy and Nuclear Regulatory Commission product standards.

Operating Temperature Limit: 400°F (204°C)

THERMAL PERFORMANCE
R-Value @ 75°F (24°C) Mean Temp.

<table>
<thead>
<tr>
<th>Type</th>
<th>mm</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>NRC*</th>
</tr>
</thead>
<tbody>
<tr>
<td>75</td>
<td>25</td>
<td>0.05</td>
<td>0.07</td>
<td>0.09</td>
<td>0.10</td>
<td>0.14</td>
<td>1.06</td>
</tr>
<tr>
<td>75</td>
<td>50</td>
<td>0.08</td>
<td>0.10</td>
<td>0.12</td>
<td>0.13</td>
<td>0.17</td>
<td>1.10</td>
</tr>
<tr>
<td>75</td>
<td>100</td>
<td>0.12</td>
<td>0.14</td>
<td>0.16</td>
<td>0.17</td>
<td>0.21</td>
<td>1.14</td>
</tr>
</tbody>
</table>

*Noise reduction coefficient.

SOUND-ABSORPTION COEFFICIENTS
Complies with MIL-DTL-32585 Requirements
Mounting Type A (Flat on the floor) [Formerly No. 4]

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Frequency, Hz</th>
<th>NRC*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 in.</td>
<td>250</td>
<td>0.05</td>
</tr>
<tr>
<td>2 in.</td>
<td>250</td>
<td>0.08</td>
</tr>
</tbody>
</table>

Incombustible Microlite® is a fiberglass blanket insulation that offers excellent acoustical and thermal control for use in a variety of marine applications. It is the recommended solution when design parameters prohibit the use of a rigid product. Incombustible Microlite is manufactured using our flame-attenuated process, delivering a product that is resilient and lightweight. The insulation is US Coast Guard approved and complies with US Navy and Nuclear Regulatory Commission product standards.

Operating Temperature Limit: 400°F (204°C)

THERMAL CONDUCTIVITY (“K”)

Mean °F | 75 | 100 | 200
Temperature °C | 24 | 38 | 93
Btu/(hr•F) W/m°C | 0.23 | 0.25 | 0.31
0.033 | 0.036 | 0.045

Incombustible Hullboard is a semi-rigid, fire-resistant fiberglass board insulation that provides thermal and acoustical control on naval and merchant vessels and drilling rig platforms. The resilient, semi-rigid insulation has a smooth surface designed specifically for facing adhesion, resulting in a clean, finished appearance. Incombustible Hullboard is US Coast Guard approved and complies with US Navy and Nuclear Regulatory Commission product standards.

Operating Temperature Limit: 450°F (232°C)

THERMAL CONDUCTIVITY (“K”)

Mean °F | 125 | 250 | 500 | 1000 | 2000 | 4000 | NRC |
Temperature °C | 75 | 100 | 121 | 150 | 200 | 200 | 200 |
Btu/(hr•F) W/m°C | 0.37 | 0.38 | 0.39 | 0.40 | 0.42 | 0.43 | 0.45 |
0.037 | 0.038 | 0.039 | 0.040 | 0.042 | 0.043 | 0.045 |

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Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of the products listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with your customer service representative for current information.

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