**Insulation**

**Calcium Silicate**
- Flat and Scored Block
- Pipe Insulation
- Insulation Cement
- Fittings

Calcium silicate insulation is used for high-temperature pipes and equipment and for firestopping applications.

**Fiberglass**
- Pipe Insulation
- Board Insulation
- Batt Insulation
- Elevated Temperature Blanket

A high surface-area-to-weight ratio makes fiberglass insulation a lightweight, cost-effective, and practical option for industrial applications, such as mechanical, HVAC and metal building insulation.

**Spray Foam**
- Single-Component
- Double-Component

Single-component spray polyurethane foam is used to fill and seal small cracks and voids. Two-component applicators combine A and B components that expand rapidly to form solid foam, creating a spray pattern to control the application of foam to vertical or horizontal surfaces.

**Needled Blanket**
- High Temperature Blankets

Composed of E-glass fibers, this material is effective in high-temperature situations such as hot industrial equipment insulation and engine exhaust.

**Aerogel**
- Cryogel
- XTE
- Pyrogel XT

Superior-quality insulation for use in extreme temperatures — brought to you by DI. Aspen Aerogels® manufactures a diverse line of ASTM C1728-compliant insulation, including Cryogel (for cold work and cryogenic applications) and Pyrogel (for high-temperature use). Ask your local DI technician about using Aerogels in your application.

**Perlite**
- Block Insulation
- Pipe Insulation
- Fittings

Because of its resistance to moisture and non-corrosive properties, perlite protects pipes and equipment while providing excellent insulation. Browse our selection for thermal insulation, fire rating, and noise reduction purposes.

**Mineral Wool**
- Board Insulation
- Pipe Insulation
- Curtain Wall
- SAFB

Highly fire-resistant, mineral wool is widely effective for firestopping purposes. DI provides the top brands for this type of protection.

**Polystyrene**
- Sheets
- Block

Utilized for its exceptional ability to insulate against noise and extreme temperatures, this material is also effective in managing energy and moisture issues that can compromise the performance of walls.

**Fabrics**
- Fiberglass Cloth
- Silicone Cloth
- Neoprene Cloth
- Canvas Cloth
- Teflon Cloth
- Weld Cloth
- Knitted Mesh
- Fiberglass Gold Heat-Treated Blankets

From versatile fiberglass cloth to engineered wire mesh, DI’s wide assortment of fabrics and cloth offer the greatest benefits in insulating performance.

**PVC**
- Jacketing
- Fittings

Our selection of PVC fittings and jacketing systems includes several industry-leading manufacturers. These products are available in high-gloss white and standard colors for both indoor and outdoor use.
**INSULATION CONTINUED**

**Rubber and Polyolephin**
- Pipe Insulation
- Sheet Insulation

Rubber insulation is designed for the HVAC and Refrigeration industry. This insulation is highly recommended for condensation control due to its excellent moisture vapor resistance and thermal conductivity. Applications include refrigerant lines, cold-water plumbing and chilled-water systems.

**Cellular Glass**

With a high compressive strength and water and fireproofing qualities, cellular glass is environmentally sustainable for use in commercial and industrial insulation applications. This material can be fabricated to all shapes and sizes in our fabrication facilities.

**Polyisocyanurate**

This closed cell rigid foam provides exceptional thermal insulation performance and offers a cost effective solution in both the commercial and industrial sectors. The DI fabrication team is readily available to customize your solution.

**BRANDS**

- 3M
- Aeroflex
- Armacell
- Cielco
- CertainTeed
- Childers
- Delta
- DOW
- Foster
- GE
- Gemco
- Howred
- Ideal
- IIG
- ITW
- Johns Manville
- K-Flex
- Knauf
- Midwest Fastener
- Mon-Eco
- Nomaco
- Owens Corning
- PIC Plastics
- Pittsburgh Corning
- Proto
- Roxul
- RPR
- Speedline
- Vimasco
- Zeston

**INSULATION TOOLS AND ACCESSORIES**

- Brushes
- Calipers
- Insulation Cement
- Insulation Fasteners
- Insulation Toolkits
- Knives
- Staple Guns and Staples
- Strapping Tools
- Support and Saddles
- Welders

**ADHESIVES, COATINGS, SEALANTS/CAULKS**

Complete any industrial or commercial insulation job with DI's wide selection of application accessories: adhesives, mastics, coatings, sealants and more.

**ALUMINUM AND STAINLESS STEEL**

DI offers superior-quality metal jacketing, banding and fittings for use in a broad range of commercial or industrial applications. Available in aluminum and stainless steel, our products are designed to provide protection of thermal insulation used primarily in refineries, power plants, chemical facilities, and paper mills.

**TAPES**

- ASJ
- Double Sided Tape
- Duct Tape
- Fiberglass Tape
- Filament Tape
- Foil Tape
- FSK
- PVC Tape
- Self Sealing Tape
- Vinyl Tape

**CALL 844-DI-NSUL8 TO ORDER.(844-346-7858)**
### INSULATION FORMULA CARD

<table>
<thead>
<tr>
<th>PRODUCT DESCRIPTION</th>
<th>K Factor @75 °F</th>
<th>R Value per 1&quot; Thickness</th>
<th>Normal Density Lb/Cu Ft</th>
<th>Flame Spread</th>
<th>Smoke Developed</th>
<th>Compressive Strength</th>
<th>Temperature Range (F) Low</th>
<th>Temperature Range (F) High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Silicate P/C</td>
<td>.41 @ 200°</td>
<td>2.44 @ 200°</td>
<td>14.5</td>
<td>0</td>
<td>0</td>
<td>&gt; 100 PSI</td>
<td>ambient to +1200</td>
<td></td>
</tr>
<tr>
<td>Elastomeric Sheet &amp; Tube</td>
<td>0.25</td>
<td>4.0</td>
<td>3-6</td>
<td>25-1.5° &amp; under</td>
<td>50-1.5° &amp; under</td>
<td>n/a</td>
<td>-297 to +220</td>
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<tr>
<td>Fiberglass P/C</td>
<td>0.23</td>
<td>4.35</td>
<td>3</td>
<td>&lt; 25</td>
<td>&lt; 50</td>
<td>n/a</td>
<td>0 to +850</td>
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<tr>
<td>Foamglas P/C</td>
<td>0.29</td>
<td>3.45</td>
<td>7.5</td>
<td>0</td>
<td>0</td>
<td>90 PSI</td>
<td>-450 to +900</td>
<td></td>
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<tr>
<td>Phenolic Foam P/C</td>
<td>0.13</td>
<td>7.7</td>
<td>2.2</td>
<td>25</td>
<td>50</td>
<td>17.5-29 PSI</td>
<td>-290 to +250</td>
<td></td>
</tr>
<tr>
<td>Mineral Wool P/C</td>
<td>0.23</td>
<td>4.35</td>
<td>8</td>
<td>5</td>
<td>0</td>
<td>n/a</td>
<td>-120 to +1200</td>
<td></td>
</tr>
<tr>
<td>Perlite P/C</td>
<td>.47 @ 100°</td>
<td>2.13 @ 100°</td>
<td>13</td>
<td>0</td>
<td>0</td>
<td>80 PSI</td>
<td>ambient to +1200</td>
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<tr>
<td>Polyethylene P/C</td>
<td>0.25</td>
<td>4.0</td>
<td>n/a</td>
<td>25 ≤ 1&quot; TK</td>
<td>≤450</td>
<td>25-30 PSI</td>
<td>-160 to +200</td>
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<tr>
<td>Polyisocyanurate P/C</td>
<td>(Trymer 2000)</td>
<td>.19</td>
<td>5.3</td>
<td>2.05</td>
<td>450 up to 6&quot; TK</td>
<td>130-140 PSI</td>
<td>-297 to +300</td>
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<tr>
<td>Polyisocyanurate P/C</td>
<td>(Trymer 6000)</td>
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<td>5.0</td>
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<td>25</td>
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<td>Polystyrene P/C</td>
<td>0.26</td>
<td>3.88</td>
<td>1.6</td>
<td>5</td>
<td>165 up to 4&quot; TK</td>
<td>20 PSI</td>
<td>-297 to +165</td>
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<tr>
<td>Fiberglass Pipe &amp; Tank</td>
<td>0.27</td>
<td>3.7</td>
<td>3</td>
<td>not rated</td>
<td>not rated</td>
<td>25# / Ft^2 @ 10%</td>
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<tr>
<td>Mineral Wool Pipe &amp; Tank</td>
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<td>3.7</td>
<td>6</td>
<td>not rated</td>
<td>not rated</td>
<td>125# / Ft^2</td>
<td>up to +900</td>
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<tr>
<td>Temmat 1&quot; Thick</td>
<td>.40 @ 300°</td>
<td>2.5 @ 300°</td>
<td>11</td>
<td>0</td>
<td>0</td>
<td>n/a</td>
<td>up to +1200</td>
<td></td>
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<tr>
<td>fiberglass Duct Wrap 75#</td>
<td>0.30</td>
<td>3.4</td>
<td>0.75</td>
<td>25</td>
<td>50</td>
<td>n/a</td>
<td>40 to +250</td>
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<tr>
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<td>0.27</td>
<td>3.7</td>
<td>1.0</td>
<td>25</td>
<td>50</td>
<td>n/a</td>
<td>40 to +250</td>
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<tr>
<td>fiberglass Duct Wrap 1.5#</td>
<td>0.25</td>
<td>4.0</td>
<td>1.5</td>
<td>25</td>
<td>50</td>
<td>n/a</td>
<td>40 to +250</td>
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<tr>
<td>Aspen Aerogel Cryogel</td>
<td>13.8 @ 32°</td>
<td>n/a</td>
<td>8</td>
<td>&lt; 5</td>
<td>20</td>
<td>25 PSI @ 25% strain</td>
<td>-328 to +194</td>
<td></td>
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<tr>
<td>Aspen Aerogel Pyroigel XT</td>
<td>.16 @ 212°</td>
<td>n/a</td>
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<td>0</td>
<td>0</td>
<td>25 PSI @ 25% strain</td>
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<tr>
<td>fiberglass TIW Type I</td>
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<td>3.7</td>
<td>1</td>
<td>25</td>
<td>50</td>
<td>n/a</td>
<td>up to +1000</td>
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<tr>
<td>fiberglass TIW Type II</td>
<td>0.23</td>
<td>4.35</td>
<td>2.4</td>
<td>25</td>
<td>50</td>
<td>n/a</td>
<td>up to +1000</td>
<td></td>
</tr>
<tr>
<td>Ceramic Fiber 8.0#</td>
<td>.375 @ 200°</td>
<td>n/a</td>
<td>8</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>up to +2300</td>
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<td>fiberglass Board 1.5#</td>
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<td>4.17</td>
<td>1.5</td>
<td>25</td>
<td>50</td>
<td>n/a</td>
<td>0 to +450</td>
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<td>fiberglass Board 3.0#</td>
<td>0.23</td>
<td>4.35</td>
<td>3</td>
<td>25</td>
<td>50</td>
<td>25# / Ft^2 @ 10%</td>
<td>0 to +450</td>
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<tr>
<td>fiberglass Board 6.0#</td>
<td>0.23</td>
<td>4.35</td>
<td>6</td>
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<td>50</td>
<td>200# / Ft^2 @ 10%</td>
<td>0 to +450</td>
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<tr>
<td>mineral Wool Board 4.0#</td>
<td>0.24</td>
<td>4.17</td>
<td>4</td>
<td>5</td>
<td>0</td>
<td>25# / Ft^2</td>
<td>up to +1200</td>
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<tr>
<td>mineral Wool Board 6.0#</td>
<td>0.23</td>
<td>4.35</td>
<td>6</td>
<td>5</td>
<td>0</td>
<td>75# / Ft^2</td>
<td>up to +1200</td>
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<tr>
<td>mineral Wool Board 8.0#</td>
<td>0.23</td>
<td>4.35</td>
<td>8</td>
<td>5</td>
<td>0</td>
<td>120# / Ft^2</td>
<td>up to +1200</td>
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<tr>
<td>mineral Wool Board 10.0#</td>
<td>0.23</td>
<td>4.35</td>
<td>10</td>
<td>5</td>
<td>0</td>
<td>250# / Ft^2</td>
<td>up to +1200</td>
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<tr>
<td>mineral Wool Board 12.0#</td>
<td>0.23</td>
<td>4.35</td>
<td>12</td>
<td>5</td>
<td>0</td>
<td>250# / Ft^2</td>
<td>up to +1200</td>
<td></td>
</tr>
<tr>
<td>Calcium Silicate Block</td>
<td>.41 @ 200°</td>
<td>2.44 @ 200°</td>
<td>14.5</td>
<td>0</td>
<td>0</td>
<td>&gt; 100 PSI</td>
<td>ambient to +1200</td>
<td></td>
</tr>
<tr>
<td>Foamglas Block</td>
<td>0.29</td>
<td>3.45</td>
<td>7.5</td>
<td>0</td>
<td>0</td>
<td>90 PSI</td>
<td>-450 to +900</td>
<td></td>
</tr>
<tr>
<td>perlite Block</td>
<td>.47 @ 100°</td>
<td>2.13 @ 100°</td>
<td>13</td>
<td>0</td>
<td>0</td>
<td>80 PSI</td>
<td>ambient to +1200</td>
<td></td>
</tr>
<tr>
<td>Phenolic Foam Board</td>
<td>0.15</td>
<td>6.67</td>
<td>2.5</td>
<td>≤ 25</td>
<td>≤ 50</td>
<td>17.5-29 PSI</td>
<td>-290 to +250</td>
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<tr>
<td>Polyisocyanurate Board 2.0#</td>
<td>0.19</td>
<td>5.26</td>
<td>2.05</td>
<td>≤ 25</td>
<td>≤ 450</td>
<td>25-30 PSI</td>
<td>-297 to +300</td>
<td></td>
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<tr>
<td>Styrofoam Panel Core</td>
<td>0.20</td>
<td>5.0</td>
<td>1.5</td>
<td>5</td>
<td>165</td>
<td>20 PSI</td>
<td>max 165</td>
<td></td>
</tr>
<tr>
<td>Thermax Board</td>
<td>0.153</td>
<td>6.5</td>
<td>2.0</td>
<td>≤ 25</td>
<td>≤ 450</td>
<td>25 PSI</td>
<td>-100 to +250</td>
<td></td>
</tr>
</tbody>
</table>

Formulas for calculating R, C & U factors on flat surfaces:

\[
R = \frac{K \text{ Thickness}}{K} \\
C = \frac{K \text{ Thickness}}{K} \\
U = \frac{K \text{ Thickness}}{K}
\]

Actual pipe covering R values must be calculated with equivalent thickness calculation.

Note: This catalog does not represent our full array of product offerings. Please call or visit our website for additional product availability.