Armaflex®
Class 0

FLEXIBLE INSULATION SYSTEM ENGINEERED TO PREVENT CONDENSATION AND ENERGY LOSSES

- Reliable, built-in condensation control due to closed-cell structure
- Effective reduction of thermal and energy loss
- Class 0 fire classification to BS476 Parts 6 and 7

- Built-in MICROBAN® antimicrobial product protection reduces mold and bacteria growth
- GREENGUARD® certified for low chemical emissions
- Free of dust, fibre and formaldehyde
**Technical Data - Armaflex® Class 0**

**Brief description**
Flexible, closed-cell insulation material with built-in MICROBAN® antimicrobial product protection (sheets).

**Material type**
Elastomeric foam based on synthetic rubber

**Colour**
Black

**Applications**
Insulation of pipes, air ducts and vessels (incl. elbows, fittings, flanges etc.) in hot and cold water services, chilled water lines, heating systems, air conditioning ductwork and refrigerated pipework. Found in commercial, industrial, residential and public buildings, insulation helps to control condensation, protect against frost and reduce energy loss.

**Safety and Environment**
Type III Environmental Product Declaration (EPD): Declaration number 4786944121.101.1, UL Environment Assembly

**Assembly**
Flexible and light-weight. No additional vapor barrier is required due to its closed-cell structure.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Assessment</th>
<th>Test</th>
<th>Special Remark</th>
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<tbody>
<tr>
<td><strong>Temperature Range</strong></td>
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<td>max. service temperature</td>
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<td>min. service temperature</td>
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<td><strong>Thermal Conductivity</strong></td>
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<td><strong>Water vapour diffusion resistance</strong></td>
<td>µ ( \leq 1.96 \times 10^{-11} \text{g/(m·s·Pa)} )</td>
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<td>DIN EN 12086</td>
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<td>GB/T 17146-1997</td>
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<td><strong>Fire performance</strong></td>
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<tr>
<td>Reaction to fire</td>
<td>Surface Spread of Flame</td>
<td>Class 1</td>
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<td>Fire Performance according to Building Regulations</td>
<td>Class 0</td>
<td>BS 476 Part 7:1997</td>
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<td>Other Fire Class</td>
<td>Flammability</td>
<td>V-0</td>
<td>UL94 Approved</td>
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<tr>
<td>Other</td>
<td>Practical Fire Behaviour</td>
<td>Self-extinguishing, does not drip, does not spread flames</td>
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<td>Other technical features</td>
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<tr>
<td>UV resistance</td>
<td>For UV protection, Armafinish Paint 99 or Arma-Chek® Silver 350 covering system is required.</td>
<td>UL2818-2013</td>
<td>GREENGUARD® Gold for even lower VOC and total chemical emissions</td>
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<tr>
<td>Health aspects</td>
<td>Dust- and fibre-free, Free of formaldehyde, Low VOC, Low Total Aldehyde</td>
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<tr>
<td>Storage &amp; Shelf life</td>
<td>Self-adhesive tapes: 1 year</td>
<td></td>
<td>Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C to 35 °C)</td>
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<tr>
<td>Antimicrobial behaviour</td>
<td>In-built MICROBAN® antimicrobial product protection in sheets: No fungal growth is observed.</td>
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<tr>
<td>Resilience after Compression Relief</td>
<td>( \geq 70% )</td>
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<td>Water Absorption by Vacuum</td>
<td>( \leq 10% )</td>
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<tr>
<td>Chemical Resistance</td>
<td>Excellent resistance to ozone, oil and chemicals (consult product test list).</td>
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<tr>
<td>Environmental Aspect</td>
<td>Zero ODP and GWP Singapore Green Building Product Certified: Very Good rating</td>
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</table>

*1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.

For outside use, Armaflex should be protected with Armafinish Paint or Arma-Chek covering within 3 days of installation. All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area.

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Excellent Fire Performance

Stringent fire safety test standards by leading international agencies certify that Armaflex® Class 0 offers excellent fire performance.

- Class 1 flame spread on surface test requirement of BS 476 Part 7
- Class 0 fire classification to BS 476 Parts 6 and 7
- Certified to conform to safety, reliability and performance standards of various local fire safety bodies

Safer Indoor Air Quality

There is no risk of fibre leakage with Armaflex® insulation material. Furthermore, Armaflex® is certified to have low emissions of volatile organic compounds (VOC).

- Fibre-free
- Free of formaldehyde
- GREENGUARD® certified for low emissions of VOC and total chemical emissions
- Compliant with the Restriction of Hazardous Substances (RoHS) directive

Long-term Condensation Control

Closed-cell insulation materials possess high resistance to water vapor ingress. Combined with low thermal conductivity, Armaflex® offers long-term energy reliability and ongoing energy savings.

Flexible and Easy-to-Install

Armaflex® is a highly flexible elastomeric foam that can be quickly installed with no irritation, even for irregular shapes and installations in tight spaces.

MICROBAN® Protection

The first flexible insulation material with MICROBAN® antimicrobial technology. Built into the insulation material during the manufacturing process, it will not wash away or wear off.

When microbes come into contact with the insulation surface, MICROBAN® penetrates the cell wall of the micro-organism, disabling its ability to function, grow and reproduce.
# Armaflex® Class 0 tubes

**Length 2.0 m, Color black**

<table>
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<tr>
<th>6.0 mm insulation thickness</th>
<th>9.0 mm insulation thickness</th>
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<td><strong>Fe Pipe Nom. OD [mm]</strong></td>
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### Armaflex® Class 0 tubes

**Length 2.0 m, Color black**

#### 25.0 mm insulation thickness

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#### 32.0 mm insulation thickness

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#### 50.0 mm insulation thickness

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</table>

**Remark**

*Recommend to replace with sheet insulation. For other product specifications, please consult our sales representatives for more information.*
## Armaflex® Class 0 sheets endless

Width 1.22 m and 1.5 m, Color black

<table>
<thead>
<tr>
<th>Code</th>
<th>Insulation thickness [mm]</th>
<th>Roll length [m]</th>
<th>Width [m]</th>
<th>m²/carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>COB-06150/E</td>
<td>6.0</td>
<td>15</td>
<td>1.5</td>
<td>22.5</td>
</tr>
<tr>
<td>COB-09150/E</td>
<td>9.0</td>
<td>10</td>
<td>1.5</td>
<td>15</td>
</tr>
<tr>
<td>COB-13150/E</td>
<td>13.0</td>
<td>8</td>
<td>1.5</td>
<td>12</td>
</tr>
<tr>
<td>COB-19150/E</td>
<td>19.0</td>
<td>6</td>
<td>1.5</td>
<td>9</td>
</tr>
<tr>
<td>COB-25122/E</td>
<td>25.0</td>
<td>4</td>
<td>1.22</td>
<td>4.88</td>
</tr>
<tr>
<td>COB-25150/E</td>
<td>25.0</td>
<td>4</td>
<td>1.5</td>
<td>6</td>
</tr>
<tr>
<td>COB-30150/E</td>
<td>30.0</td>
<td>3</td>
<td>1.5</td>
<td>4.5</td>
</tr>
<tr>
<td>COB-32150/E</td>
<td>32.0</td>
<td>3</td>
<td>1.5</td>
<td>4.5</td>
</tr>
<tr>
<td>COB-35150/E</td>
<td>35.0</td>
<td>3</td>
<td>1.5</td>
<td>4.5</td>
</tr>
<tr>
<td>COB-40122/E</td>
<td>40.0</td>
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<td>1.22</td>
<td>3.66</td>
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<tr>
<td>COB-50122/E</td>
<td>50.0</td>
<td>2.5</td>
<td>1.22</td>
<td>3.05</td>
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</tbody>
</table>

**Remark**

Please consult our sales representatives for more information.

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## Armaflex® Class 0 accessories

<table>
<thead>
<tr>
<th>Code</th>
<th>Article description</th>
<th>Pieces/carton</th>
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</thead>
<tbody>
<tr>
<td>AS-AD-5201G</td>
<td>Armadex® 520 adhesive, 3.78 litre cans</td>
<td>4</td>
</tr>
<tr>
<td>CLEANER/1,0</td>
<td>Special cleaner for use with Armadex® Adhesive 520 and Armadex® Adhesive HT625.</td>
<td>4</td>
</tr>
<tr>
<td>CUTTING-SET</td>
<td>Armadex® knife-set (3 knives + 1 sharpening stone)</td>
<td>1</td>
</tr>
<tr>
<td>GLUEM-BRUSH11MM</td>
<td>Gluemaster extra brush points with cap (11mm diameter)</td>
<td>5x4</td>
</tr>
<tr>
<td>GLUEM-BRUSH17MM</td>
<td>Gluemaster extra brush points with cap (17mm diameter)</td>
<td>5x4</td>
</tr>
<tr>
<td>GLUEMASTER B</td>
<td>Armadex® Gluemaster (adhesive pump)</td>
<td>12</td>
</tr>
</tbody>
</table>