Neopor® HPE-130 Product Data Sheet
Innovation in Insulation Enhanced with Graphite.

Why Builders Rely on Neopor® High Performance Insulation.
- Graphite-enhanced R-5 performance
- Meets 2009, 2012 and 2015 International Residential Code (IRC) for Continuous Insulation (CI), Below Grade, Attics and Crawl Spaces
- Moisture-resistant and Vapor-open
- GREENGUARD Gold Indoor Air Quality
- Attractive incentive program
- R-value Warranty

Product Description.
Neopor HPE-130 is an Innovation in insulation product with a maximum R-value enhanced with graphite.

Neopor HPE-130 is a premium grade insulation manufactured to provide builders and contractors all the features and benefits inherent in a high quality insulation.

Applications.
- Exterior above and below grade insulation

Technical Data.
Code Compliances.
Neopor HPE-130 is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER5817-02.

Applicable Standards.
Neopor HPE-130 meets ASTM C578, Type VIII, “Standard Specification for Rigid Cellular Polystyrene Thermal Insulation”. Applicable standards include:
- ASTM C203 – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation

R-value.
Neopor HPE-130 has air in its closed cells and therefore has a stable R-value. Many other insulations use blowing agents that cause R-value loss and are harmful to the environment.

As temperatures drop, the R-value of Neopor HPE-130 increases significantly. Many other insulations lose R-value at low temperatures.
Installation.
Neopor HPE-130 boards are easy to handle, cut using a utility knife or serrated blade, and install.

Moisture Resistance.
Neopor HPE-130 is manufactured to resist moisture absorption in wetting conditions and release absorbed moisture quickly during drying periods, which means Neopor HPE-130 maintains R-value. The drying potential of Neopor HPE-130 sets it apart from other insulation materials.

Product Protection.
Neopor HPE-130 can be damaged by prolonged direct sunlight exposure or by reflected sunlight. Neopor HPE-130 must be protected during storage, transportation, and at the project with a light colored opaque material.

Please refer to the Neopor HPE-130 Handling Instructions.

Flame Retardants
Although flame retardants present in Neopor HPE-130 provide an important margin of safety, all Neopor HPE-130 products must be considered combustible.

A protective barrier or thermal barrier is required as specified in the appropriate building code.

Temperature Exposure.
Neopor HPE-130 is able to withstand the rigors of temperature cycling, assuring long-term performance. The maximum recommended long-term exposure temperature for Neopor HPE-130 is 165°F (74°C).

Termites.
Neopor High Performance Insulation can be manufactured with Termicide.

Warranty.
Neopor HPE-130 is covered by a 50 year limited warranty ensuring thermal performance.

Product Availability and Support.
Neopor HPE-130 is supported by a team of experts who work with you to answer your questions, offer solutions, and do everything they can to make sure your project goes smoothly and ends successfully. Neopor HPE-130 is manufactured and sold by a network of locations throughout North America.

Physical Properties of Neopor HPE-130.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive Strength @ 10% deformation</td>
<td>13 psi</td>
</tr>
<tr>
<td>R-value, Thermal Resistance ASTM C518</td>
<td>40°F 5.2°F·h/Btu</td>
</tr>
<tr>
<td>Density Nominal ASTM C303</td>
<td>75°F 5.0°F·h/Btu</td>
</tr>
<tr>
<td>Flexural Strength, min. ASTM C203</td>
<td>lb/ft³ 1.25</td>
</tr>
<tr>
<td>Water Vapor Permeance of 1.0 in. thick, max., perm ASTM E96</td>
<td>psi 32</td>
</tr>
<tr>
<td>Water Absorption by total immersion, max., volume % ASTM C272</td>
<td>3.1</td>
</tr>
<tr>
<td>Flame Spread Index ASTM E84</td>
<td>&lt;25</td>
</tr>
<tr>
<td>Smoke Developed Index ASTM E84</td>
<td>&lt;450</td>
</tr>
<tr>
<td>Maximum use temperature</td>
<td>165°F (74°C)</td>
</tr>
<tr>
<td>ASTM C578 Compliance, Type</td>
<td>VIII</td>
</tr>
</tbody>
</table>

1 Please refer to ASTM C578 specification for complete information. R-values are based on 1-1/16” thickness.
2 Compressive strength is measured at 10 percent in accordance with ASTM C578. A safety factor is required to prevent long-term creep for sustained loads. For static loads, a safety factor of 3:1 is recommended.

Product and Packaging Data.

<table>
<thead>
<tr>
<th>Product</th>
<th>Product Dimensions</th>
<th>Pieces per Bundle</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-3</td>
<td>11/16 x 48 x 96</td>
<td>16</td>
</tr>
<tr>
<td>R-5</td>
<td>1-1/16 x 48 x 96</td>
<td>11</td>
</tr>
<tr>
<td>R-10</td>
<td>2-1/8 x 48 x 96</td>
<td>5</td>
</tr>
</tbody>
</table>

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