DEHE® DH 1200 Insulation  
ASTM C552 Grade 12

Cellular glass, its main composite is glass mixed with foam agent, produced through high temperature foaming and annealing, is a new type of inorganic thermal insulation material composed by thousands of tiny uniform hermetically sealed glass cells. It contains no ozone depleting propellants, flame resistant additives or binder, WHITOUT VOC or other volatile substances.

**Attributes**

- Non-combustible
- Waterproof
- Vapor-tight
- Ecological
- Vermin, pest and botany proof
- Stable chemical property
- High compressive strength
- Dimensionally stable
- Easy to Process
- Excellent acoustical coefficient
- Wide service temperature
- Perfect insulation property

**Applications**

- Cold & cryogenic tanks bases
- Hot & high temperature tank bases
- Load bearing pipe supports
- Secondary containment corner protection
- Special loading bearing applications

DEHE®DH Block Insulation is manufactured in a full range of standard grades and it is available in standard SI and ENGLISH formats.

### DH SLAB DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>SI</th>
<th>ENGLISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIDTH &amp; LENGTH</td>
<td>460 x 610 mm</td>
<td>18 x 24 in</td>
</tr>
<tr>
<td>THICKNESSES</td>
<td>50-150 mm</td>
<td>2-6 in</td>
</tr>
</tbody>
</table>

Tolerance:Width&Length ± 1.6mm;Thickness ± 1mm

Contact DEHE for regional availability.

DEHE® Insulation can be certified to conform to the requirements of:

- ASTM C552 "STANDARD SPECIFICATION FOR CELLULAR GLASS THERMAL INSULATION."
- ISO9001 QPT-QUALITY MANAGEMENT
- ISO9001 QUALITY MANAGEMENT
- ISO14001 ENVIRONMENTAL MANAGEMENT
- ISO18001 HEALTH AND SAFETY MANAGEMENT
- DNV.GL TYPE APPROVAL CERTIFICATE
- CERTIFICATE FOR INVENTOR'S PATENT RIGHT (THE PATENT OF CELLULAR GLASS MANUFACTURING SYSTEM)
- CERTIFICATE FOR INVENTOR'S PATENT RIGHT (THE PATENT OF CELLULAR GLASS MANUFACTURING BASED ON PHENOLIC RESIN MOLDING COMPOUND)
- CERTIFICATE FOR INVENTOR'S PATENT RIGHT (THE PATENT OF WHITE MASTIC MANUFACTURING)
- CERTIFICATE FOR INVENTOR'S PATENT RIGHT (THE PATENT OF DH SEALENT MANUFACTURING)

Request for certification shall be included with valid order for DEHE®Insulation.
CELLULAR GLASS DEHE® DH 1200
ZHEJIA NG DEHE INSULATION TECHNOLOGY CO., LTD.
PRODUCT DATA SHEET

PHYSICAL AND THERMAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>SI</th>
<th>ENGLISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENSITY (g/m³)</td>
<td>C303</td>
<td>140 kg / m³</td>
<td>8.7 lb / ft³</td>
</tr>
<tr>
<td>COMPRESSIVE STRENGTH</td>
<td>C165/C240/C552</td>
<td>Avg Value =1.2 MPa</td>
<td>Avg Value =174 lb / in²</td>
</tr>
<tr>
<td>Lowest Single value =0.83 MPa</td>
<td></td>
<td></td>
<td>Lowest Single value =120 lb / in²</td>
</tr>
<tr>
<td>ABSORPTION OF MOISTURE</td>
<td>C240</td>
<td>≤ 0.2% by Vol</td>
<td>&lt; 0.2% by Vol</td>
</tr>
<tr>
<td>COEFFICIENT OF LINEAR THERMAL EXPANSION</td>
<td>E228</td>
<td>25 to 300°C, 9.0 x 10⁻⁶ / K</td>
<td>75 to 575 °F, 5.0 x 10⁻⁶ / °F</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-170 to 25°C, 6.6 x 10⁻⁶ / K</td>
<td>274 to 75°F, 3.7 x 10⁻⁶ / °F</td>
</tr>
<tr>
<td>SERVICE TEMPERATURE</td>
<td>E136</td>
<td>Noncombustible</td>
<td>Noncombustible</td>
</tr>
<tr>
<td>COMBUSTIBILITY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIMENSIONAL STABILITY</td>
<td></td>
<td>Excellent - does not SHRINK OR SWELL.</td>
<td></td>
</tr>
<tr>
<td>COLOR</td>
<td></td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>CAPILLARITY</td>
<td></td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>CHEMICAL RESISTANCE</td>
<td></td>
<td>Impervious to common acids and their fumes.</td>
<td></td>
</tr>
<tr>
<td>COMPOSITION</td>
<td></td>
<td>Glass, Inorganic. No fibers or binders.</td>
<td></td>
</tr>
<tr>
<td>HYGROSCOPICITY</td>
<td></td>
<td>No increase in weight at 90% relative humidity</td>
<td></td>
</tr>
</tbody>
</table>

THERMAL CONDUCTIVITY (λ) VALUES AT SELECT TEMPERATURES (ASTM C518, C177)

<table>
<thead>
<tr>
<th>TEMPERATURE</th>
<th>°C</th>
<th>204</th>
<th>149</th>
<th>93</th>
<th>38</th>
<th>24</th>
<th>10</th>
<th>-18</th>
<th>-46</th>
<th>-73</th>
<th>-101</th>
<th>-129</th>
<th>-157</th>
<th>-165</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>°F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTM C552</td>
<td>W/m K</td>
<td>0.086</td>
<td>0.074</td>
<td>0.062</td>
<td>0.052</td>
<td>0.050</td>
<td>0.048</td>
<td>0.043</td>
<td>0.040</td>
<td>0.036</td>
<td>0.033</td>
<td>0.030</td>
<td>0.027</td>
<td>N/A</td>
</tr>
<tr>
<td>DEHE®DH1200</td>
<td>W/m K</td>
<td>0.083</td>
<td>0.071</td>
<td>0.059</td>
<td>0.049</td>
<td>0.047</td>
<td>0.045</td>
<td>0.041</td>
<td>0.037</td>
<td>0.034</td>
<td>0.031</td>
<td>0.028</td>
<td>0.026</td>
<td>0.025</td>
</tr>
</tbody>
</table>

Values represent typical physical and thermal properties.
DH1200 limit values, Where applicable, are specified by ASTM C552 Standard Specification for Cellular Glass Thermal Insulation.
For additional information on DEHE® DH insulation or systems, please contact Zhejiang Dehe Insulation Technology Co., Ltd.

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