High Density PIR / High Density PUF
高密度聚异氰脲酸酯/聚氨酯泡沫

一、产品简介 | Product Description
高密度聚异氰酸酯/聚氨酯是由异氰酸酯与聚醚为主原料，再加上发泡剂、触媒和阻燃剂，经高速搅拌混合反应生成的，具有塑性、橡胶和发泡材料的优良性能。产品由无数个微小均匀的独立泡孔结构组成，呈立体蜂巢式结构，其导热系数低，抗压强度高、吸水率低，耐水解、不燃阻燃性能好，实为优良的保温、隔热及低湿温最佳的新型保冷材料。

High Density PIR/High Density PUF is a foaming polymer with the features of plastic, rubber and foam wood, produced through high-speed mixing with the main raw material of isocyanate and polyester, added with foaming agent, catalysis and flame retardant. The finished product has a three-dimensional honeycomb structure, composed of thousands of tiny uniform hermetically sealed cells. It has low thermal conductivity, high compressive strength, low water absorption, anti-hydrolysis, non-flammable, molding excellence, which wood products cannot compare with. It's a new ideal material for cryogenic pipe line and equipment's supports, bearing part and bracket.

二、产品优势 | Product Advantage
1. 导热系数低，保温效果好
   - Low thermal conductivity;
2. 抗压性强，抗曲性好
   - High compressive strength and high flexural strength;
3. 密孔率高，吸水率低
   - High closed cell rate, low water absorption;
4. 火焰阻燃性能优良
   - Excellent flame retardant;
5. 耐腐蚀性强，不吸水不蛀
   - Strong anti-corrosion, vermin proof;
6. 注模成型，可机械切割，可满足不同厚度的保冷设计要求。
   - Can be prefabricated in molds, NC mechanical cutting, meet various thermal insulation designed thickness.
三、技术参数 | Technical Data

<table>
<thead>
<tr>
<th>检测项目</th>
<th>Test Item</th>
<th>单位</th>
<th>Unit</th>
<th>技术指标</th>
<th>Technical Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>密度</td>
<td>Density</td>
<td>Kg/m³</td>
<td>Kg/m³</td>
<td>160</td>
<td>240</td>
</tr>
<tr>
<td>导热系数(20℃)</td>
<td>Thermal Conductivity</td>
<td>W/(m.K)</td>
<td>W/(m.K)</td>
<td>≤0.032</td>
<td>≤0.040</td>
</tr>
<tr>
<td>抗压强度</td>
<td>Compressive Strength</td>
<td>Mpa</td>
<td>Mpa</td>
<td>≥2.0</td>
<td>≥4.0</td>
</tr>
<tr>
<td>吸水率</td>
<td>Water Absorption</td>
<td>%</td>
<td>%</td>
<td>≤2.0</td>
<td>≤2.0</td>
</tr>
<tr>
<td>开闭度</td>
<td>Closed Cell Content</td>
<td>%</td>
<td>%</td>
<td>&gt; 90</td>
<td></td>
</tr>
<tr>
<td>线性膨胀系数</td>
<td>Coefficient of Linear Thermal Expansion</td>
<td>1/K</td>
<td>1/K</td>
<td>≤6.5×10⁻⁶</td>
<td></td>
</tr>
<tr>
<td>使用温度</td>
<td>Service Temperature</td>
<td>℃</td>
<td>℃</td>
<td>-196~110</td>
<td></td>
</tr>
</tbody>
</table>

四、产品应用 | Product Application

主要应用于石油化工装置、液化气厂、冷冻库及中央空调系统管道、设备层叠及屏热，分为耐温保冷磁套,耐温保冷磁套(包括两相液管接导向管套),耐温保冷磁套,屏热系统。

It is mainly used in petrochemical industry, liquefied gas plant, refrigeration house and central air condition system, where high load bearing and insulation properties are required. Which applied as sliding support, guide support (including guide support for vertical pipe), limiting support, insulation block.

五、包装储存 | Packing and Storage

按定装要求在工厂装配完成，外包装用木箱包装，特殊要求可根据需要定制。

All parts will be fitted together in workshop, then packed in wooden case, special requirement is available according to request.

六、使用及注意事项 | Application and Cautions

1. 装支承，接缝或截断而成，现场按图更换组合；
   Detach the product, insert parts in positions, and fit them together again;
2. 安装根据说明书要求进行安装。
   Install according to manufacturer’s instruction.