FIRWIN 1200

Firwin 1200 High Temperature Glass Fiber Insulating Blanket

Firwin 1200 is a mechanically, not organically, bonded glass fiber insulating blanket of uniform density that offers reliable, superior performance at temperatures up to 1,200° F. (650°C)

Firwin 1200 meets U.L. ® requirements, ref.#R11184, all requirements of military specifications MIL-1-24244 and MIL-1-16411 (latest revisions), and all pertinent automotive specifications.

Firwin 1200 is manufactured from a well-controlled assortment of glass textile fibers to assure uniform mechanical bonding. Firwin 1200 quality is maintained through a carefully controlled needling process which creates uniform insulating efficiency during extended exposure to elevated temperatures.

Firwin 1200 is offered in standard 1/4", 1/2" and 1" grades.

Product Characteristics

- Low thermal conductivity at temperatures to 1,200° F (650°C)
- Non-toxic
- Good drapeability- conforms to irregular surfaces
- Non-combustible
- Excellent vibration resistance, will not powder.
- Odorless- will not absorb odors
- Will not contribute to metal corrosion
- Excellent sound absorption properties
- Will not decay, nor sustain mold or vermin
- Conforms with MIL-1-16411 and MIL-1-24244
- U.L. listed: ref. #R11184 (flame spread-0, smoke generated-0)
- Reliable, superior performance... every time

Applications

- Removable pads
- Ship turbines
- Marine, industrial and process piping
- Muffler insulation
- Power generating equipment
- Industrial furnaces
- Automotive floor and front dash insulation
- Many other specialty applications requiring quality insulation.

<table>
<thead>
<tr>
<th>PHYSICAL PROPERTIES</th>
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<tbody>
<tr>
<td>Grade</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td>1/4&quot;</td>
</tr>
<tr>
<td>1/2&quot;</td>
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<tr>
<td>1&quot;</td>
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The above information represents nominal values.

THERMAL CONDUCTIVITY

According to independent testing, Firwin 1200 meets and exceeds the following "K" factor requirements for MIL-1-16411 (latest revision), Type II:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>BTU in/hr/sq ft°F</th>
</tr>
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<tbody>
<tr>
<td>300°F</td>
<td>.40</td>
</tr>
<tr>
<td>500°F</td>
<td>.50</td>
</tr>
<tr>
<td>700°F</td>
<td>.65</td>
</tr>
</tbody>
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ACOUSTICAL RATINGS

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>1&quot;</th>
<th>1/2&quot;</th>
<th>1/4&quot;</th>
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<tbody>
<tr>
<td>250</td>
<td>.29±.04</td>
<td>.07±.02</td>
<td>.04±.04</td>
</tr>
<tr>
<td>500</td>
<td>.86±.03</td>
<td>.30±.03</td>
<td>.17±.02</td>
</tr>
<tr>
<td>1000</td>
<td>.95±.04</td>
<td>.72±.08</td>
<td>.40±.04</td>
</tr>
<tr>
<td>2000</td>
<td>.92±.03</td>
<td>.94±.05</td>
<td>.68±.03</td>
</tr>
<tr>
<td>4000</td>
<td>.95±.05</td>
<td>.97±.05</td>
<td>.94±.05</td>
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Noise Reduction Co-efficient (NRC) .75

Sound Absorption Coefficients (Sabins/sq.ft.)