Nonwoven Fabric Types

Fluidized beds can be found in the bottoms of silos, trailers, railcars, ships, and barges. A wide variety of dry bulk powders are carried using this “Live Bottom” technology for emptying vessels and storage containers. This method is extremely efficient, has a low operating cost and is often the most economical to purchase and install.

**Polyveyor Needled Polyester**

Polyveyor was specifically designed to be the ideal membrane for fluidized bed and air gravity conveyors. The special needled construction provides uniform and consistent air flow across the entire surface of the fabric. This in turn means maximum conveyor efficiency and output.

**POLYVEYOR STYLES**
- MODEL 1950 Low Permeability
- MODEL 1951 Medium Permeability

**High Temp Polyveyor / Kevlar**

Kevlar fabric is needled onto a Polyveyor 1951 polyester base. This versatile fabric is rated for a temperature of 500°F continuous or 600°F intermittent.

**POLYVEYOR / KEVLAR STYLES**
- MODEL 5925 High Temp Polyveyor / Kevlar

**BENEFITS OF THE NEEDLING PROCESS**

Nearly sixteen inches of 100% polyester fibers are layered over a special scrim. These fibers are continually needled and compressed to form a smooth 1/4” material with uniform thickness and consistent airflow known as Polyveyor.

This material will not unravel when cut or perforated, so heat sealing is not required on cut edges. This not only adds to the ease of installation, but makes Polyveyor ideal for bends or other unusual shapes that are encountered.

When using Polyveyor, there is no need to stretch the fabric during installation because Polyveyor already has the proper permeability. Simply install Polyveyor taut over the air chamber and bolt it in place. The special scrim, constructed for lateral rigidity and superior bolt holding strength, minimizes the sag often found in other air permeable membranes. Finally, the thousands of pores needled into Polyveyor are so fine that product sifting down into the air chamber is minimized or eliminated.
Solid Woven Polyester

We are a full service stocking distributor of the finest solid woven air permeable fabrics. These fabrics, which are engineered specifically for air gravity conveyors and fluidized beds, are carried in large inventories for fast delivery and dependable service to our customers. Three styles of woven polyester are available.

1. WPLP Low Permeability 100% Woven Polyester
2. WPMP Medium Permeability 100% Woven Polyester
3. WPHP High Permeability 100% Woven Polyester

AMERICAN MADE WOVEN POLYESTER

Our woven polyester fabrics each have their own air permeable specification and provide the best material and construction available.

These solid woven fabrics are the best traditional style air gravity membranes on the market and are made of 100% spun polyester fibers. Multiple plies are interwoven for superior strength and abrasion resistance. They are constructed specifically for this application and have consistent / uniform airflow and excellent service life.

Whether it is an emergency situation or a scheduled maintenance procedure, we have the exact air permeable belt specification you need.
## Air Permeable Fabric Specifications

<table>
<thead>
<tr>
<th>Material</th>
<th>Composition</th>
<th>Description</th>
<th>Thickness</th>
<th>Weight PW</th>
<th>Color</th>
<th>Permeability@1/2&quot; Water Pressure</th>
<th>Temp. Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyveyor 1950</td>
<td>Polyester</td>
<td>Needled</td>
<td>.250</td>
<td>.07</td>
<td>White</td>
<td>.5 CFM</td>
<td>-60° / 310°F</td>
</tr>
<tr>
<td>Polyveyor 1951</td>
<td>Polyester</td>
<td>Needled</td>
<td>.250</td>
<td>.055</td>
<td>White</td>
<td>1.5 CFM</td>
<td>-60° / 310°F</td>
</tr>
<tr>
<td>Polyveyor Hi-Heat</td>
<td>Kevlar/ Polyester</td>
<td>Needled</td>
<td>.280</td>
<td>.055</td>
<td>Yellow / White</td>
<td>1.5 CFM Max 500°F 600°F intermittent</td>
<td></td>
</tr>
<tr>
<td>WearSlide LP High Abrasion</td>
<td>Polyester / Rubber</td>
<td>Needled</td>
<td>.250</td>
<td>.065</td>
<td>White</td>
<td>.5 CFM</td>
<td>-60 / 310°F</td>
</tr>
<tr>
<td>WearSlide HP High Abrasion</td>
<td>Polyester / Rubber</td>
<td>Needled</td>
<td>.250</td>
<td>.065</td>
<td>White</td>
<td>1.5 CFM</td>
<td>-60 / 310°F</td>
</tr>
<tr>
<td>Woven Polyester Low Permeability</td>
<td>Polyester</td>
<td>Interwoven</td>
<td>.24</td>
<td>.067</td>
<td>White</td>
<td>.5 CFM</td>
<td>-60° / 310°F</td>
</tr>
<tr>
<td>Woven Polyester Medium Permeability</td>
<td>Polyester</td>
<td>Interwoven</td>
<td>.26</td>
<td>.062</td>
<td>White</td>
<td>1.0 CFM</td>
<td>-60° / 310°F</td>
</tr>
<tr>
<td>Woven Polyester High Permeability</td>
<td>Polyester</td>
<td>Interwoven</td>
<td>.195</td>
<td>.048</td>
<td>White</td>
<td>1.9 CFM</td>
<td>-60° / 310°F</td>
</tr>
</tbody>
</table>

*Permeability Values: Cubic Feet / Minute / Square Feet

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Also Available:
Woven Cotton Fabric for Air Gravity Conveyor and Fluidized Beds.