Wicking

Laboratory Testing carried out at B. Braun Hospicare
Data referenced in BBH 301PTDF REV004

Background and objective
Askina® DresSil’s silicone wound contact layer is perforated to allow exudate to pass through to the foam layer, preventing exudate leaking onto the surrounding skin and maceration of the wound edges.

The objective of this study was to determine the wicking properties of Askina® DresSil and to compare them with market leading competitor products.

Method
The same quantity (1 ml) of test liquid was placed on the surface of the dressing samples. The time needed for the liquid to be completely absorbed is measured.

Results

<table>
<thead>
<tr>
<th>Product</th>
<th>Company</th>
<th>Type of perforation in the silicone layer</th>
<th>SEM image</th>
<th>Wicking time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Askina® DresSil</td>
<td>B. Braun</td>
<td>“Flower” pattern</td>
<td><img src="image1" alt="SEM image" /></td>
<td>38 sec</td>
</tr>
<tr>
<td>Mepilex®</td>
<td>Mölnlycke</td>
<td>Continuous flood coating with microscopic holes</td>
<td><img src="image2" alt="SEM image" /></td>
<td>3 min</td>
</tr>
<tr>
<td>Allevyn® Gentle</td>
<td>S&amp;N</td>
<td>Uniform pattern of holes</td>
<td><img src="image3" alt="SEM image" /></td>
<td>&gt; 60 min</td>
</tr>
</tbody>
</table>

The table resumes the wicking time of tested dressings with SEM images of the silicone layers. The wicking time of Askina® DresSil is the best among the tested dressings.

Conclusion
The distinctive design of Askina® DresSil’s silicone contact – “flower pattern” holes in the coated adhesive enables very quick and vertical absorption of the exudate.