Verdi – modified viscose fibre

Verdi is an anionic viscose fibre with a pronounced core-sheath-structure. Its key properties are:

- **Self extinguishing**
  In burning behaviour tests Verdi exhibits self-extinguishing properties. Its LOI is similar to the LOI of FR polyester.

- **Water vapour and moisture management**
  Verdi absorbs twice as much water vapour and approximately 60% more water than standard viscose.

- **Non-sticking surface effect**
  In wet state Verdi fibres and products made from them have a non-sticking surface effect.

- **Self-bonding properties** deliver higher dry-strength to papers and wetlaid constructions.

- **Anionic charge of Verdi fibre:**
  - Helps protecting the natural pH of the skin.
  - Gives significantly higher affinity to cationic dyestuffs than standard viscose but no negative impact on dyeability using substantive dyes.

**Applications:**
Verdi can be used in 100% or in blends with other fibres such as viscose, cotton or synthetics for
- Functional, water vapour and moisture regulating textiles
- Self-extinguishing night- and underwear
- Absorbent materials such as wound dressings, highly absorbent wipes

**Processing:**
Verdi can be processed on ring spinning equipment, nonwoven and wetlaid technologies.

**Properties / Availability:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tenacity (cN / tex)</td>
<td>17 – 22</td>
</tr>
<tr>
<td>Elongation at break (%)</td>
<td>18 - 21</td>
</tr>
<tr>
<td>Water retention (%)</td>
<td>140 – 180</td>
</tr>
<tr>
<td>Water vapour absorption (%)</td>
<td>18</td>
</tr>
<tr>
<td>Decitex</td>
<td>1.7, 3.3</td>
</tr>
<tr>
<td>Staple (mm)</td>
<td>30, 40</td>
</tr>
<tr>
<td>Wet short cut (mm)</td>
<td>3, 4, 5, 6, 8, 10, 12</td>
</tr>
<tr>
<td>Lustre</td>
<td>bright</td>
</tr>
</tbody>
</table>

Other dtex / staple lengths are available on request.

For more information about our products please email to: functionalfibres@kelheim-fibres.com or call Germany +49-9441-99353. Please visit also our website [www.kelheim-fibres.com](http://www.kelheim-fibres.com).

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