Hydrophilic Sponge Material
A Revolutionary Approach in New Sponge Technology that combines the excellent physical properties of polyurethane foam with the wipe-dry performance of competitive materials.
Polyurethane foams have been used in mops for many years but have not been well accepted for use in hand sponges due to poor wipe dry performance versus competitive materials.

- Aquazone® WD is a proprietary, advanced new sponge technology.

- Aquazone® WD outperforms traditional polyurethane foam sponges by combining novel chemistry and manufacturing. The result is wipe dry performance rivaling competitive materials such as cellulose sponges.

- Aquazone® WD also outperforms cellulose in many other areas.
What is Aquazone® WD

A hydrophilic, polyurethane double cell foam targeting sponge and mop markets. Primary attribute is wipe dry performance equal to cellulose while maintaining the desirable physical properties of polyurethane.
Features

- Novel technology
- Maintains shape after drying
- Virtually odor-free
- Wipes counters dry – just like cellulose!
- Colors stay brighter longer

- Holds 22 grams water per gram sponge
- Excellent mechanical properties
- Improved chemical resistance
- Excellent durability
- Patent Pending
## Benefits Compared to Cellulose

<table>
<thead>
<tr>
<th>Benefits</th>
<th>Compared to Cellulose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wipe dry performance</td>
<td>=</td>
</tr>
<tr>
<td>Antimicrobial</td>
<td>=</td>
</tr>
<tr>
<td>Water holding capacity</td>
<td>+</td>
</tr>
<tr>
<td>Soft &amp; Flexible, wet or dry</td>
<td>+</td>
</tr>
<tr>
<td>Durability</td>
<td>+</td>
</tr>
<tr>
<td>Water release</td>
<td>+</td>
</tr>
<tr>
<td>Consistent product structure</td>
<td>+</td>
</tr>
<tr>
<td>Multiple colors</td>
<td>+</td>
</tr>
<tr>
<td>Color stability</td>
<td>+</td>
</tr>
<tr>
<td>Clean appearance</td>
<td>+</td>
</tr>
<tr>
<td>Chemical resistance</td>
<td>+</td>
</tr>
<tr>
<td>Odor</td>
<td>+</td>
</tr>
<tr>
<td>Fabrication benefits</td>
<td>+</td>
</tr>
</tbody>
</table>
New Sponge Technology

Cellulose was developed around 1948 and there hasn’t been a new product to compete UNTIL NOW.

FXI, a leading manufacturer of open cell polyurethane foams, is pleased to announce a “new” hydrophilic foam.

AQUAZONE® WD

Maintains shape after drying
Excellent wipe dry
Easier to fabricate with dry foam technology
No more cutting wet cellulose buns
Better chemical resistance
### Physical Properties

<table>
<thead>
<tr>
<th>Typical Property</th>
<th>Units</th>
<th>Aquazone®WD</th>
<th>Cellulose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>lbs/ft³</td>
<td>2.7</td>
<td>3.7</td>
</tr>
<tr>
<td>Thickness</td>
<td>inches</td>
<td>0.6</td>
<td>0.6</td>
</tr>
<tr>
<td>Cell Structure</td>
<td></td>
<td>Fine Double Cell</td>
<td>Medium Double Cell</td>
</tr>
<tr>
<td>25% Compression Deflection</td>
<td>psi</td>
<td>0.6</td>
<td>0.2</td>
</tr>
<tr>
<td>65% Compression Deflection</td>
<td>psi</td>
<td>1.4</td>
<td>0.6</td>
</tr>
<tr>
<td>Tensile</td>
<td>psi</td>
<td>33.2</td>
<td>40.5</td>
</tr>
<tr>
<td>Tear</td>
<td>lbs/inch</td>
<td>5.1</td>
<td>2.8</td>
</tr>
<tr>
<td>Elongation</td>
<td>%</td>
<td>302</td>
<td>19</td>
</tr>
<tr>
<td>Wet Out Time*</td>
<td>seconds</td>
<td>&lt;1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Wipe Dry-Damp*</td>
<td>grams</td>
<td>28.8</td>
<td>28.4</td>
</tr>
<tr>
<td>Water Holding Capacity*</td>
<td>g/g sponge</td>
<td>22</td>
<td>14.6</td>
</tr>
<tr>
<td>Color</td>
<td></td>
<td>Various</td>
<td>Various</td>
</tr>
</tbody>
</table>

Standard test methods ASTM-D-3674

*Hydrophilicity and water absorption test procedures available upon request
Physical Properties

Description:
A hydrophilic, polyurethane double cell foam targeting the sponge and mop market. Primary attribute is wipe dry performance comparable to cellulose while maintaining the physical properties of polyurethanes.

Sheet Size: 48” x 72”
Standard Thickness: 0.5” up to 1”
Standard Colors: Blue & Yellow
FOB: Ft. Wayne, Indiana
Packaging: Black poly bags

NOTES:
1. Aquazone®WD is produced in sheet stock only.
2. It is shipped dry, not wet like cellulose material.
3. Other colors and thicknesses may be available upon request.
Why should I substitute Aquazeone® WD in place of cellulose?
- stronger and more durable
- remains soft and flexible, wet or dry
- virtually odor free for longer period of time
- better chemical resistance
- sheets shipped dry so easier to fabricate
- exhibits competitive wipe dry performance

Is Aquazeone® WD available in rolls?
- No. Sheets only, 48” x 72”

Does it contain an antimicrobial?
- Yes, upon request

Can the surface of this product be modified?
- It is not recommend modifying or machining the surface of the sheets

Will scrubby material adhere to this product?
- Yes

Can the customer order in various colors or other thicknesses?
- Special colors or thicknesses are available with min. purchase requirements
Aquazone®WD

Potential Markets

- Household Consumer Products and Cleaning
- Hand Sponges
- Cosmetics
- Medical markets
- Industrial Cleaning-Equipment, grouting, etc.
- Janitorial/Commercial Cleaning
- Laboratory applications
- Microbiological sampling
- Food Processing Equipment
- Printing Industry
- Auto Care
- Electronics and Clean Rooms