

# Hydrophilic Sponge Material

**Aquazone<sup>®</sup> WD**



# Aquazone® WD

**A Revolutionary Approach in New Sponge Technology that combines the excellent physical properties of polyurethane foam with the wipe-dry performance of competitive materials.**



# Aquazone® WD

**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.

# Aquazone® WD

## 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.

# Aquazone® WD

## 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

# Aquazone® WD

## Benefits

## Compared to Cellulose

Wipe dry performance	=
Antimicrobial	=
Water holding capacity	+
Soft & Flexible, wet or dry	+
Durability	+
Water release	+
Consistent product structure	+
Multiple colors	+
Color stability	+
Clean appearance	+
Chemical resistance	+
Odor	+
Fabrication benefits	+

# Aquazone® WD

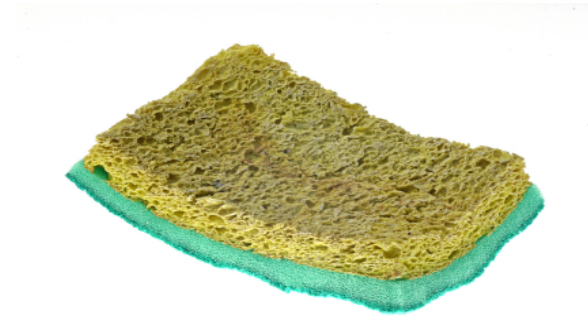
## New Sponge Technology

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



Old Technology



AQUAZONE® WD  
Remains soft and pliable

# Aquazone® WD

## Physical Properties

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

<b>Sheet Size:</b>	48" x 72"
<b>Standard Thickness:</b>	0.5" up to 1"
<b>Standard Colors:</b>	Blue & Yellow
<b>FOB:</b>	Ft. Wayne, Indiana
<b>Packaging:</b>	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.

# Aquazone® WD

- **Why should I substitute Aquazone®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 Aquazone® WD available in rolls?**
  - No. Sheets only, 48" x 72"

## Frequently Asked Questions

- **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

