OMNIPURE Aquabond™

Your Specialized Solution to Water Contamination

Aquabond™ is available in standard formulations, and Omnipure is pleased to manufacture custom designed media to fulfill specific OEM requirements. Omnipure's Aquabond™ media are used in business, industrial, and residential applications such as those listed below.

Food Service

Ice Machines
- Cubers
- Flakers

Postmix Soda Guns
- Bar guns
- Single and multi carbonators

Steamer Protection
- Pressureless
- Combi ovens

Coffee Equipment
- Bottle brewers
- Espresso machines
- Urns

OCS Vending

Commercial / Industrial

- Chemical
- Petrochemical
- Fuel
- Pharmaceuticals
- Precious metal

Drinking Water

Point-of-Use
- Countertop
- Under-sink
- End-of-Tap
- Carafe filters
- Refrigerator filters

Point-of-Entry
- Whole house

Reverse Osmosis
- Pre and Post filtration

Household Appliances
- Coffee, tea, and espresso machines
- Humidifiers

Water Coolers

Fountains

Shower Filters

OMNIPURE

Omnipure Filter Company uses a patented manufacturing process which allows it to prepare specialized granular media – Aquabond™ – used to treat liquids. Central to the technology is the bonding of fine powdered particles onto larger support particles to form uniquely engineered composites ideally suited to specific applications.

Features and Benefits

The Aquabond™ process allows the bonding of single or multiple types of particles,ranging from coarse to extremely fine, onto a single support structure – for example, fine powdered lead sorbents bonded onto a carbon support structure. This unique Omnipure process permits the manufacture of composite media capable of solving complex water contamination problems.

Increased Surface Area / Improved Kinetics

The bonding of thousands of fine powdered media onto a larger support particle exponentially increases the surface area of the resulting composite. Increased surface area translates to improved kinetics or reactive effects of the media, permitting the use of a smaller amount of media while achieving superior results.

Improved Performance / Improved Aesthetics

Aquabond™ technology makes possible smaller, more aesthetically pleasing filtration devices with excellent performance results. Tests show that Aquabond™ media equal or exceed the performance of standard granular activated carbon based filters in chlorine, taste, and odor reduction.

No Fines Release

Aquabond™ media releases virtually no fines during startup. The amount of fines that are released in the effluent is similar to most activated carbon block filter elements.

The Aquabond™ process supports the bonding of multiple particulates onto the surface of the support particle. The result is media capable of performing multiple functions simultaneously.

Outdated Technology

Existing filtration technology uses granular particles with limited surface area and kinetic efficiency

- One large particle
- Reduced activity and total capacity

Aquabond™ composite adsorption products feature fine particles bonded onto a support particle to permit multiple functionality.

Granular activated carbon particle

Dual Filtration Functionality

Aquabond™ media with a single fine powder particle permanently bonded onto the surface of a support particle

- Media is capable of performing dual filtration functions (e.g., lead and chlorine reduction)

Powdered lead sorbent bonded onto the surface of an activated carbon particle

Multiple Functionality

Aquabond™ media with multiple particles permanently bonded onto the surface of a support particle

- Media is capable of performing multiple functions (e.g., lead, chlorine, antimicrobial, and arsenic reduction)

Powdered lead sorbent, antimicrobial, and arsenic reduction compounds bonded onto the surface of an activated carbon particle