



**Donaldson**  
FILTRATION SOLUTIONS

## FILTRATION SOLUTIONS FOR VACUUM AND FLOOR CARE

Donaldson has a wealth of expertise within the Vacuum and Floor Care Industry solving challenging filtration problems. Each of our solutions are engineered to achieve targeted performance levels designed to provide our customers with differentiated, value-added products.

### OUR EXPERTS SERVE AS AN EXTENSION TO YOUR ENGINEERING TEAM OFFERING:

- Filtration design, development, prototyping and testing
- Filtration media development and testing for new applications
- Simulation and design modeling for flow, structure and performance
- System development and testing

You can rely on Donaldson's team of filtration experts to create market leading filtration solutions. OEMs have come to rely on Donaldson to solve their filtration issues. Donaldson offers flexible solutions customized to OEMs across a wide range of industries.

Donaldson's reputation has been built on its problem solving, quality solutions and commitment to customers' satisfaction even after the sale. Donaldson's worldwide network allows us to provide local support that's responsive and comprehensive - no matter where it's needed.

A dedicated team of OEM account managers and engineers stands ready to solve even the most complex filtration issue.



## MEDIA TECHNOLOGY

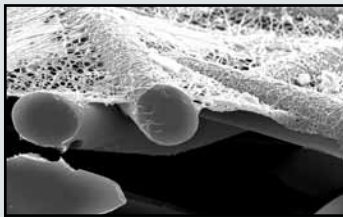
Donaldson offers a variety of media technology to suit a range of vacuum and floor cleaning applications. Our best-selling filter solutions are highlighted below. The multi-layered anti-microbial ePTFE HEPA filter media provides improved odor control and is specifically designed for vacuum cleaner air filtration cartridge applications, but can also be used for a variety of other filtration systems.

### High Filtration Efficiency

Ultra-Web®  
Antimicrobial Media  
Glass HEPA

#### Ultra-Web® Electrospun Nanofiber

- Ultra-Web Electrospun Nanofiber media is made up of a web of submicron fibers that trap dust particles at the surface of the filter
- Suitable for applications that require high-efficiency filtration with low pressure drop

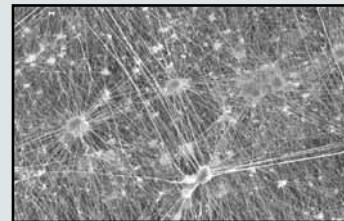


### Ultra High Filtration Efficiency

Tetratex® ePTFE Membrane  
HEPA & High Efficiency  
Anti-Odor Media  
Antimicrobial Media

#### Tetratex® ePTFE Membrane

- Tetratex ePTFE comprises of fibrils which eliminate the penetration of fine dust and dirt particles. It is also hydrophobic; water vapors can pass through the membrane but water cannot
- Used in applications that require HEPA level filtration



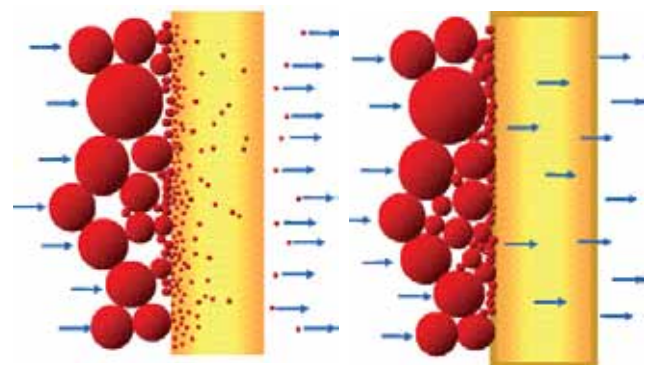
### Available Media Solutions

- HEPA-US
- Europe H10 through H13
- MERV 10 through 16
- Allergy-level filtration
- Antimicrobial
- Cleanable
- Flame retardant
- Odor control

### Filter Media & Filters Designed for:

- HEPA, high efficiency and allergy level filtration
- Handle dry, moist, or wet cleaning conditions
- Various cleaning methods

### Standard Filter Media vs. Donaldson Cleanable Filter Media



Dust particles penetrate the depths of the filter media.

A layer of Ultra-Web nanofibers or Tetratex® ePTFE over standard filter material traps dust particles on the filter media surface.

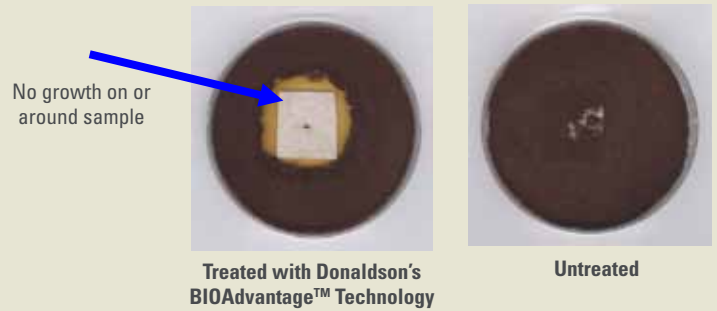
Standard filter media is depth loading, while Donaldson cleanable filter material is surface loading, stopping particles on its surface. The cleanable media won't clog and particles fall off easily.

- A surface filtration membrane acts as a primary dust cake

# DONALDSON'S BIOADVANTAGE™ ANTIMICROBIAL TECHNOLOGY FOR VACUUMS

BIOAdvantage™ is Donaldson's antimicrobial protection against stains, odors and product deterioration.

Donaldson's BIOAdvantage™ inhibits the growth of microorganisms such as bacteria and mold. Vacuums and sweepers are designed to pick up dirt and small particles such as bacteria, mold and mold spores. Add humidity or moisture and you have the perfect breeding ground for bacteria, viruses and mold which all cause allergies and colds.

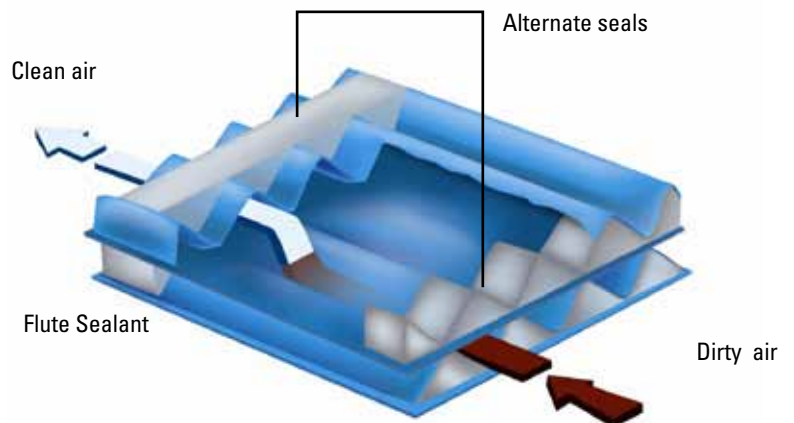


These samples were tested for efficiency against mold using the AATCC Test Method 30, Part III

## POWERCORE™ MEDIA TECHNOLOGY

### Leading the Way with PowerCore™

PowerCore media technology is integral to the dramatic downsizing of the PowerCore filter. PowerCore filter packs combine Ultra-Web nanofiber technology with Donaldson's media configuration expertise. As a result, a more effective filtration area is packaged into smaller spaces. You gain equal performance in significantly less space, freedom to design unique configurations to tight spots, and overall design simplicity. The configuration of the flutes can be customized to the size of your contaminant and application.



Filter media is formed into flutes – these flutes are layered to give a tight, rugged structure to the filter.

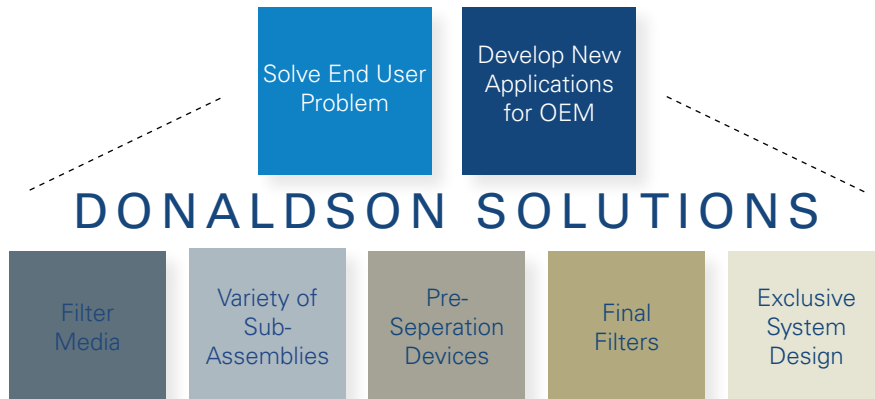
Fluted channels are alternately sealed, allowing air to enter through an open flute and forcing it to exit through the media and out an adjacent flute.

# CUSTOM SOLUTIONS FOR OEMS

## Technology Driven

To meet our customer's needs, Donaldson offers a full range of technologically advanced filtration solutions for those in the Vacuum and Floor Care Industry.

Whether your solution includes media, sub-assemblies (pleat packs), final filters, help with a system design or any combination of these, consider Donaldson as your strategic partner.



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