



DuPont HMT  
Wendy James

MERV 14  
Sell Sheet

October 23, 2007

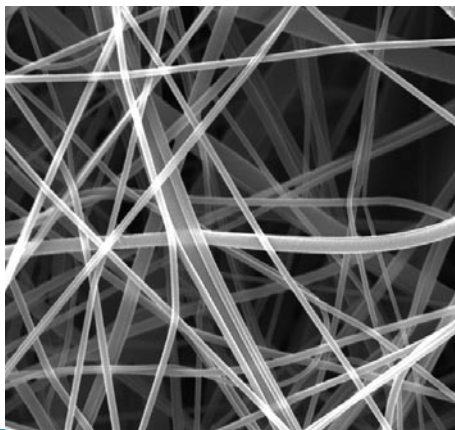
# DuPont™ Premium HVAC Filters with DuPont™ Hybrid Membrane Technology

MERV 14

Solutions for air filtration requirements in demanding HVAC applications



DuPont™ Premium HVAC Filter—MERV 14



A scanning electron micrograph of DuPont™ HMT sheet material, showing the sub-micron diameter fibers

DuPont™ Hybrid Membrane Technology (HMT) goes beyond the limits of today's semi-porous, synthetic and microglass media. Made by a proprietary new spinning process, DuPont™ HMT nanofiber media contain continuous polymeric filaments with a typical diameter between 100 nanometers and one micron. The result is DuPont™ HMT will deliver greater performance across a variety of air and liquid filtration and energy storage applications.

DuPont™ HMT offers many unique features and benefits in demanding filtration applications including

- Superior fine particle filtration efficiency
- Optimal balance of flux/barrier performance

DuPont™ Premium HVAC Filters are a line of high efficiency, extended surface air filters designed to support demanding air filtration needs in a variety of commercial applications. The robust V-bank filter design, combined with DuPont™ HMT media, provides superior particle capture in the sub-micron range for improved air quality, non-diminishing performance throughout the filter life, and minimal pressure drop leading to greater energy efficiency.

## Features and benefits

- Unique frame design: extremely rigid, impact-resistant, and lightweight
- Non-metal components: eliminate the potential for corrosion

## Filter-specific information

<b>Superior particle capture</b>	Significantly better particle capture in the 0.3–1.0 micron range
<b>Non-diminishing performance</b>	Unique nanofiber technology does not rely on electrostatic charge to maintain filtration efficiency
<b>Low resistance</b>	Up to 20% reduction in initial and operating resistance compared to competitive materials providing maximum energy savings thereby reducing operational costs



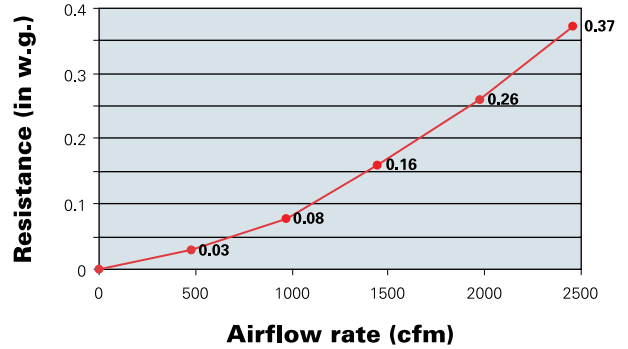
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## Preliminary product specifications

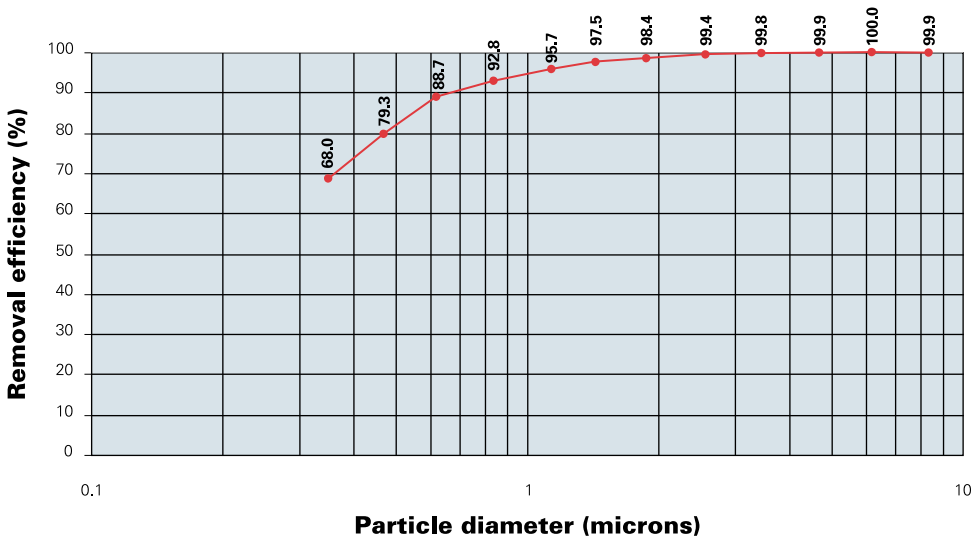
MERV 14 filter	
Media area	160 ft. <sup>2</sup>
MERV rating	14
Average ASHRAE efficiency	>90%
Initial resistance* (@ 1968 cfm)	0.26" w.g.
UL 900 classification	Class 1
Frame dimensions	24" x 24" (nominal)
Frame depth	12" (nominal)
Weight	14 lb. (nominal)

\*Tested in accordance with ASHRAE 52.2

## Air flow vs. resistance—clean device



## Initial particle size removal efficiency



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For more information, call 1-800-448-9835  
or visit our website at  
[www.HybridMembrane.DuPont.com](http://www.HybridMembrane.DuPont.com)