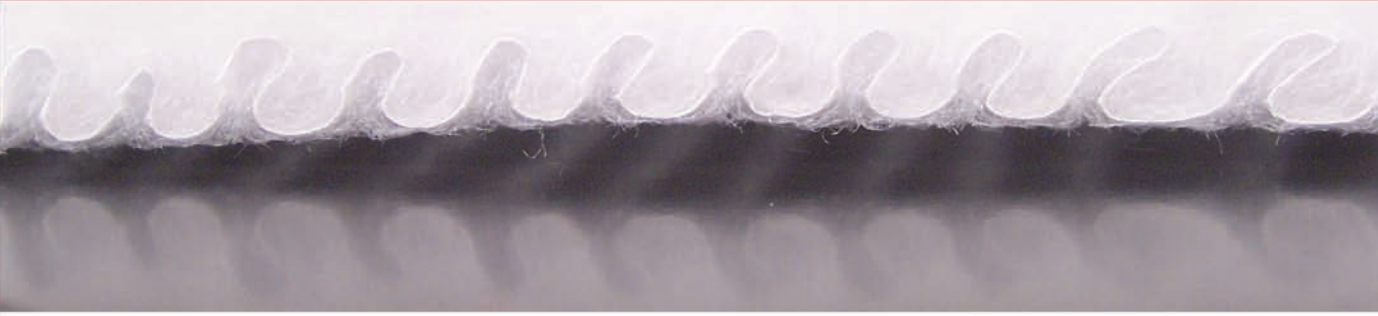


NANOWAVE SYNTHETIC FILTER MEDIA



H&V, a globally recognized leader in high-performance filtration media has developed a new air filtration solution that exceeds traditional synthetic media standards. New NanoWave product technology delivers enhanced efficiency in a wide range of industries.

For years, the filtration industry has been looking for a synthetic alternative to glass mat media that offers better filter performance with lower energy costs. To solve this challenge, Hollingsworth & Vose Company has developed a unique, environmentally-friendly choice for air filtration applications that meets the standards for HVAC bag applications.

NanoWave™, H&V's proprietary extended surface synthetic media, offers the same efficiency and resistance in an uncharged state as glass mat media. However, NanoWave synthetic media eliminates the occurrence of fiber shedding that is associated with glass media during filter processing, installation, and use.

Designed specifically to meet ASHRAE bag standards, NanoWave can be converted into a filter using conventional ASHRAE bag manufacturing equipment, eliminating capital expenses for plant equipment switching costs.

NanoWave can be used in a wide variety of applications, including the following:

- Paint spray booth filter media
- Commercial HVAC applications
- Residential HVAC media
- Vacuum cleaner bag and exhaust filters
- Respirator filter media
- Auto air intake and auto cabin air filter media

NanoWave filters last longer than conventional glass media, and this high-loft media offers twice the dust-holding capabilities of traditional synthetic media, resulting in a more efficient and economic filter.

Additionally, NanoWave's high stiffness allows proper bag opening, and it retains its shape in variable HVAC systems, reducing set-up time and increasing productivity. Bags remain aesthetically attractive during the long service life.

Benefits

- Increased filter life
- Lower energy costs through better air handling
- Elimination of fiber shedding
- No switching cost for equipment
- Excellent dust-holding capacity

H&V's innovative NanoWave synthetic media improves filtration effectiveness and productivity compared to traditional synthetics.

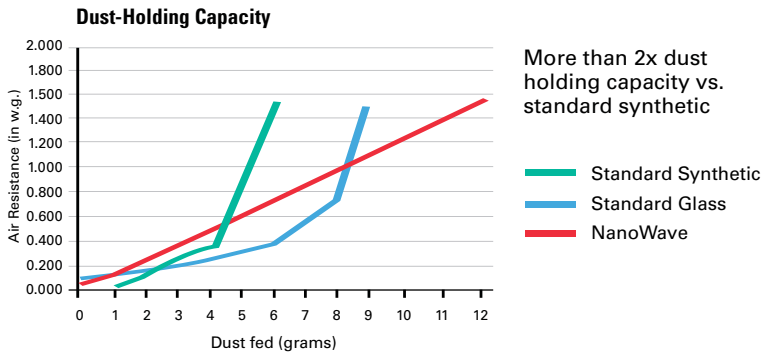
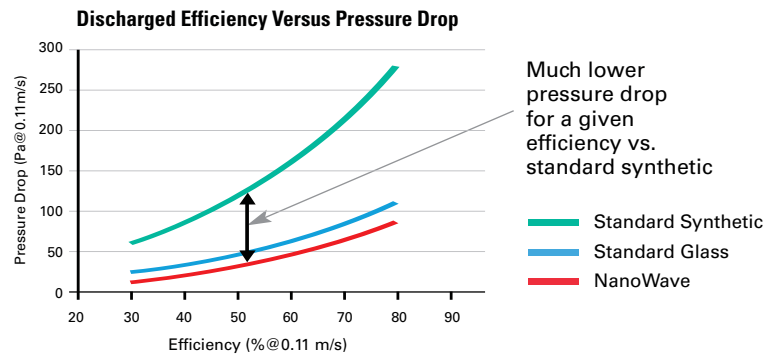
Performance efficiency and resistance

Compared to conventional synthetic media, which rely on electrostatic charge, NanoWave meets the same efficiency at half the resistance in a discharged condition.

NanoWave can be offered as either a charged or uncharged media. Charged media offers the advantage of enhanced efficiency at the start of the filter life, but will not drop below the efficiency of glass mat during filter lifespan.

Discharged efficiency vs. pressure drop

NanoWave offers much lower pressure drop for a given efficiency versus standard synthetic, resulting in lower energy consumption for air handling equipment.



Hollingsworth & Vose

www.hollingsworth-vose.com

Hollingsworth & Vose Company
112 Washington Street
East Walpole, MA 02032 U.S.A.
508-850-2000

Hollingsworth & Vose Europe
Friedberger Strasse 191
D-61118 Bad Vilbel, Germany
Tel +49 (0) 6101 98167-00
Fax +49 (0) 6101 98167-20

Hollingsworth & Vose (Suzhou)
Company, Ltd.
No. 39 Song Bei Road
Suzhou Industrial Park,
Jiangsu, China 215126
Tel (+86) 512-6767 8600
Fax (+86) 512-6767 8652

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11/07 Printed in U.S.A. 0721072

NanoWave pressure drop for various classifications

	Filtration Classification	Pressure Drop (Pa@0.11m/s)
European Standards	F6	24
	F7	45
	F8	90
US Standards	MERV 11	22
	MERV 14	43
	MERV 15	86

* These are average values and do not form a specification.

HVisionSM
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