

HEAVY-DUTY AIR FILTER MEDIA APPLICATIONS



H&V has advanced R&D capabilities and diverse process technologies to provide the right media for your demanding application. NANOWEB-treated heavy-duty air filter media has been designed to meet the challenging strength and endurance requirements of OE applications.

Demanding heavy-duty filtration applications call for long-lasting, extremely durable media. As a leader in developing state-of-the-art filter technologies, Hollingsworth & Vose now offers nanofiber media with high dirt-holding capacity for the toughest environments.

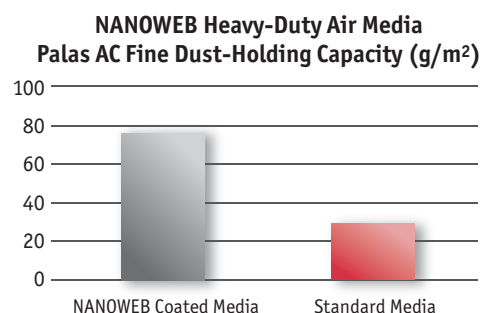
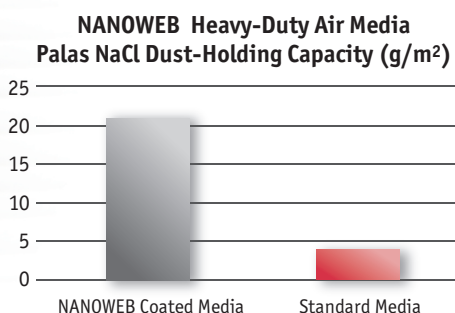
NANOWEB[®], H&V's advanced nanofiber technology significantly enhances particle capture efficiency at a minimal increase in pressure drop. NANOWEB-treated heavy-duty air filter media has been specifically designed to meet the growing needs of OE applications. Strength and endurance enable H&V's NANOWEB media to excel over other nanofibers.

Increased efficiency. NANOWEB-coated media offers a new standard in fractional efficiency. Test results show a significant improvement in fractional efficiency with AC fine dust using NANOWEB coating compared to untreated substrates (97% versus 90%). When tested with 0.3 to 0.4 micron of NaCl particles, which are similar to soot, NANOWEB media offers at least twice the protection of untreated media. The considerable increase in filtration efficiency with NANOWEB coating delivers unmatched protection for heavy-duty equipment.

Superior dust-holding capacity. A significant increase in dust-holding capacity can be seen with the use of NANOWEB coating. NANOWEB media performance with NaCl (soot) reveals a five-fold increase in NaCl (soot) dust-holding capacity compared to typical untreated substrate. More than a 50% increase in capacity per-unit area is seen when tested against AC fine test dust. This increase in dust-holding capacity greatly extends filter life and service intervals.

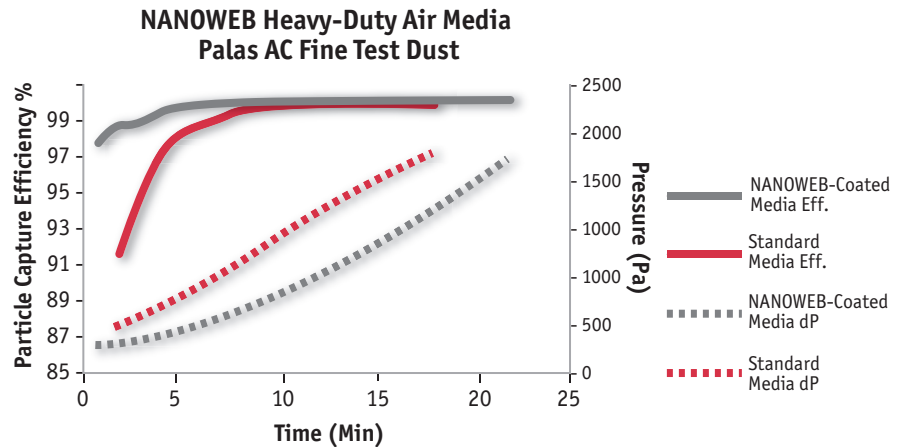
Extended filter life. NANOWEB coating offers longer filter life over standard untreated media. When tested with NaCl (soot), NANOWEB exhibited a four-fold increase in lifetime. Performance with AC fine dust test also showed considerable lifetime extension. This longer lasting media reduces maintenance costs and the potential for dust contamination during filter changes.

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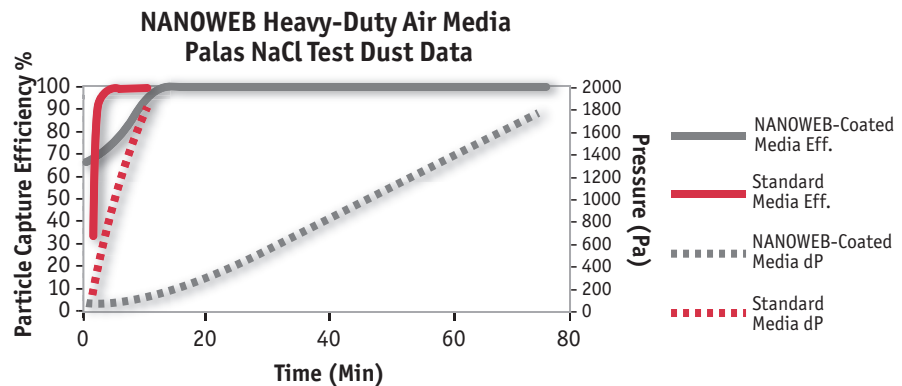
NANOWEB Performance with AC Fine Test Dust

- Improved fractional efficiency over standard substrates (97% versus 90%)
- Improved media life 37% versus untreated substrate (22 minutes versus 16 minutes to 1,800 Pa restriction)



NANOWEB Performance with 0.3 to 0.4 micron of NaCl particles (soot)

- 65% fractional efficiency with NANOWEB versus 30% with untreated standard media
- 65 minutes lifetime with NANOWEB versus 16 minutes with untreated standard media, a 4 x improvement



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NANOWEB Heavy Duty Air Filter Media Grades

	Basis Weight (lbs/3000ft ²)	Overall Caliper (mils @ 2.7 psi)	Air Permeability (cfm/ft ² @ 0.5" WC)	Air Flow Resistance (mm WC @ 10.5 ft/min)	Efficiency — 0.3 micron NaCl (% @ 10.5 ft/min)	Max Pore Diameter (microns)
FA6920NW	81	33	29	6.0	68	35
FA6921NW	77	33	32	5.4	48	47