

# AUTOMOTIVE AIR FILTER MEDIA APPLICATIONS



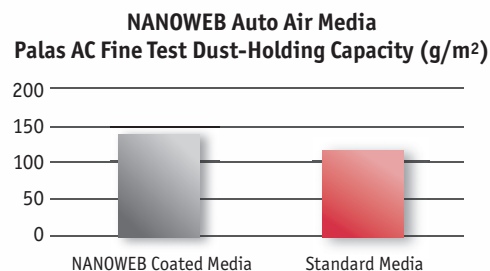
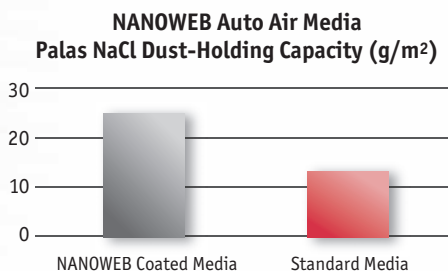
Hollingsworth & Vose, a leader in engineered paper and nonwovens since 1843, consistently delivers state-of-the-art solutions to achieve advanced performance for demanding applications. Developed under the HVision™ technology platform, NANOWEB-coated media is ideally suited to meet the growing demands of automotive air filter media OE applications.

A new line of 0.3 to 0.5 micron nanofiber-treated automotive air filter media has been specifically designed to meet the growing needs of OE applications. H&V's NANOWEB®-coated media offers a four-fold increase in efficiency and double the capacity per unit area when tested against NaCl (soot). The material also offers twice the protection of untreated media when tested with current standard AC fine test dust. Only NANOWEB provides all this protection while still offering excellent dust-holding capacity for automotive air filtration applications. NANOWEB-coated media is designed to protect automotive engines longer, with more efficient media that maximizes energy use.

**Increased efficiency.** NANOWEB-coated filter media provides improved efficiency while protecting automotive engine components from harmful dust particles. When tested with AC fine test dust, NANOWEB media shows a considerable increase in fractional efficiency over untreated substrates (90% versus 76%). A significant improvement in fractional efficiency is also seen when tested with 0.3 to 0.4 micron of NaCl particles (78% versus 5%). The increase in particle efficiency with NANOWEB coating provides greater filtration performance and engine protection.

**Lower restriction.** NANOWEB filtration media has been specifically designed with high-permeability substrates then coated with NANOWEB fibers to provide lower media restriction with higher filtration efficiency. This media combination enables the high-efficiency filtration advantages provided by the nanofiber coating without restricting air flow. The lower element restriction results in reduced in-use filtration energy costs.

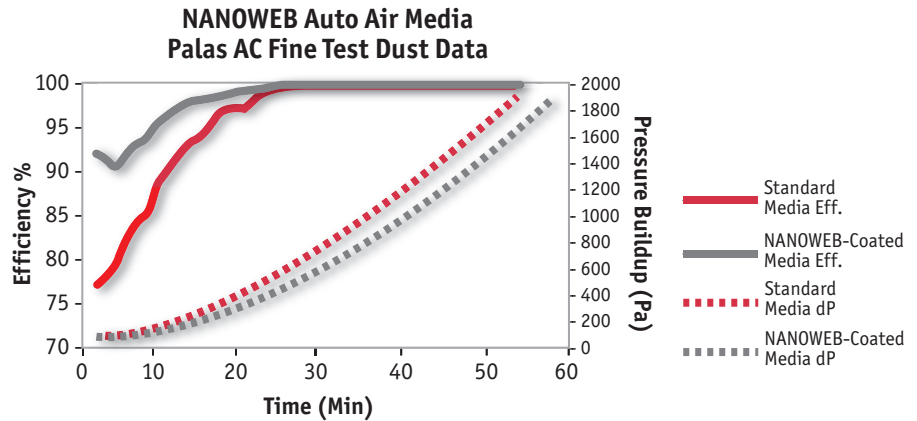
**Higher dust-holding capacity.** NANOWEB auto air media offers improved dust-holding capacity, increasing overall filter life. The NANOWEB coating provides double the NaCl (soot) dust-holding capacity and similar media life of typical untreated substrates when tested with AC fine dust.



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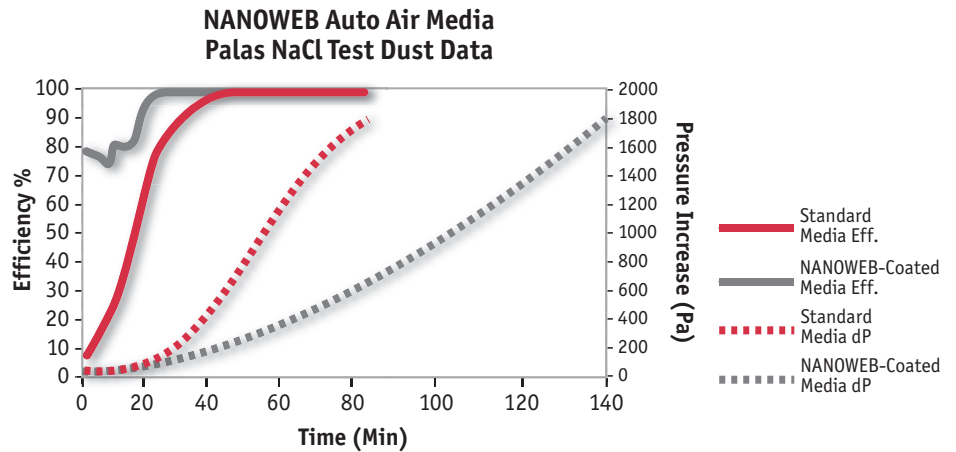
### NANOWEB Performance with AC Fine Test Dust

- Improved fractional efficiency over untreated substrates (90% versus 76%)
- Similar media life to untreated substrate (50 + minutes)



### NANOWEB Performance with 0.3 to 0.4 Micron of NaCl Particles (soot)

- 78% fractional efficiency with NANOWEB versus 5% with standard untreated media
- 140 minutes lifetime with NANOWEB versus 80 minutes with standard untreated media



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### NANOWEB Auto Air Filter Media

	Basis Weight (g/m <sup>2</sup> )	Overall Air Caliper (mm)	Permeability (l/m <sup>2</sup> /sec @ 20 mm WC)	Air Flow Resistance (mm WC @ 5.33 cm/sec)	Efficiency — 0.3 micron NaCl (% @ 5.33 cm/sec)	Max Pore Diameter (microns)
NANOWEB TR7330-16	126	0.73	691	1.5	39	72