

GAS TURBINE FILTER MEDIA APPLICATIONS



NANOWEB-coated filter media is designed to meet the challenging demands of OE applications in gas turbine/dust collection OE applications. As the innovative materials leader, H&V sets the standard for efficiency and extended life.

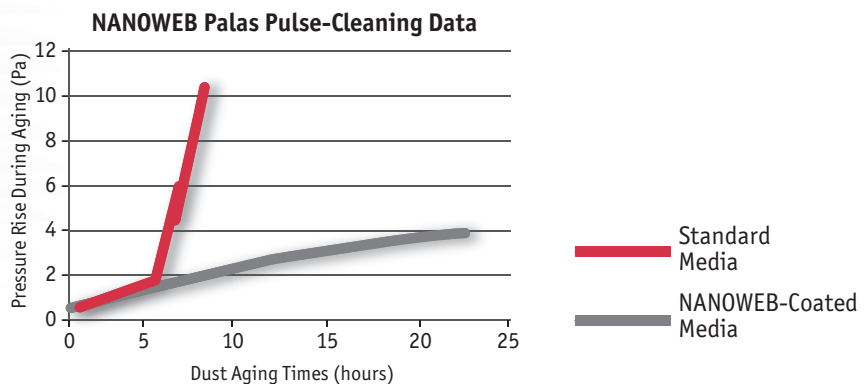
A new line of NANOWEB®-coated filter media has been specifically designed to meet the growing needs of OE applications in gas turbine/dust collector air filtration. Hollingsworth & Vose's NANOWEB technology offers 0.3 to 0.5 micron nanofibers, setting a new standard in fractional efficiency. Unlike electrospun nanofibers, NANOWEB fibers are stronger and more durable so the nanofiber coating can withstand stringent pulse-cleaning forces.

Improved efficiency. The new NANOWEB filter media offers significantly improved fractional efficiency over untreated substrates (97% versus 90%) when tested against AC fine test dust. When tested with 0.3 to 0.4 micron of NaCl particles, which are similar to soot, NANOWEB-coated media has 60% fractional efficiency as compared to 20% with standard untreated media. In gas turbine/dust collector applications, the higher efficiency filtration seen with NANOWEB coating translates into three times the equipment protection of traditional media, meaning reduced soot fouling and maintenance for customers.

Extended life. Not only does NANOWEB coating greatly improve equipment protection, it also extends filter life and service intervals. When tested with NaCl particles (soot), filter media coated with NANOWEB fibers offers a four-fold increase in filter life. NANOWEB-coated filter media also has more than 30% capacity per unit area when tested against AC fine test dust.

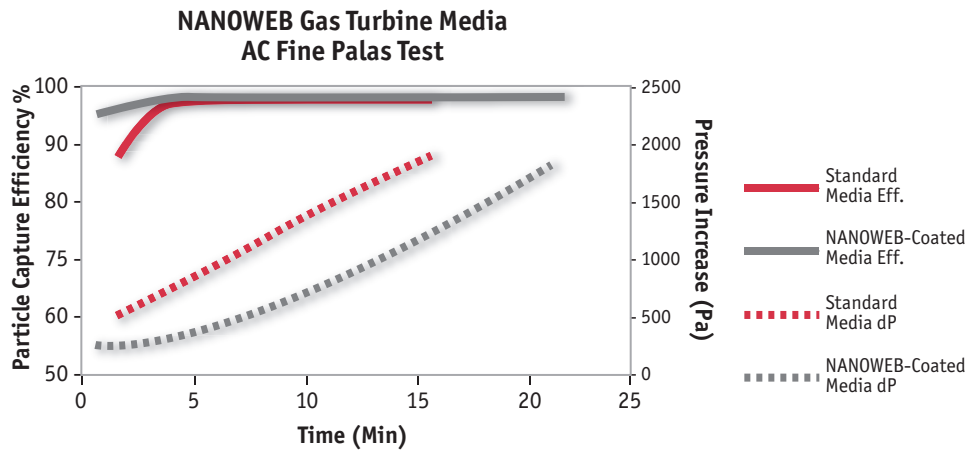
Cleanable nanofibers. This line of NANOWEB filter media is specifically designed to meet the stringent pulse-cleaning requirements of OE applications. Unlike other fragile nanofibers, NANOWEB coating exhibits increased media adhesion and more durable nanofibers. These stronger nanofibers offer a significant increase in pulse lifetime compared to untreated substrates. The high surface area of NANOWEB coating also noticeably improves the dust cake release during cleaning.

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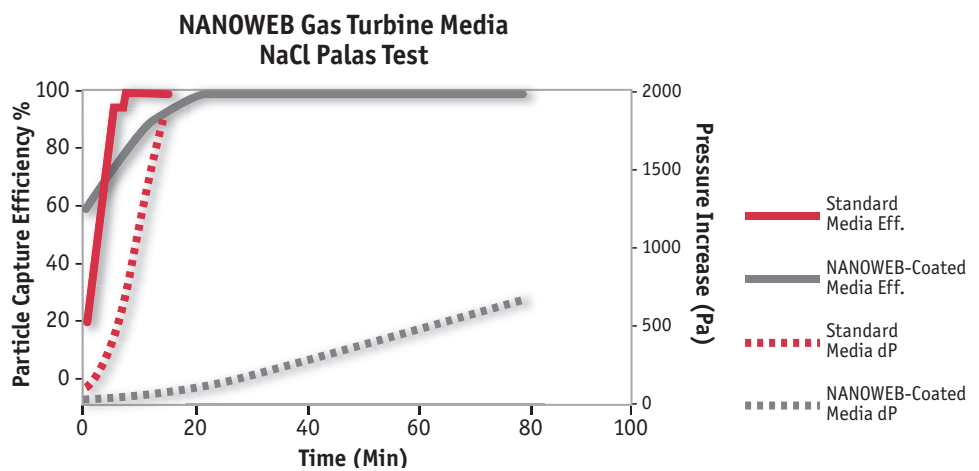
NANOWEB Performance with AC Fine Test Dust

- Improved fractional efficiency over untreated substrates (97% over 90%)
- Improved nonpulsed media life 37% compared to 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)

- 60% fractional efficiency with NANOWEB versus 20% on untreated standard substrate
- More than 80 minutes nonpulsed lifetime with NANOWEB versus 16 minutes on untreated standard substrate



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NANOWEB Gas Turbine/Dust Collector Air Filter Media Grades

	Basis Weight (lbs/3000 ft ²)	Overall Caliper (mils @ 2.7 psi)	Air Permeability (cfm/ft ² @ 0.5" WC)	Efficiency — 0.3 micron NaCl (% @ 10.5 ft/min)	Max Pore Diameter (microns)
FA6900NW	81	31	30	68	35
FA6900NWFR	84	31	28	68	30
FA6901NW	77	31	34	48	47
FA6901NWFR	80	31	30	48	41
FA6902NW	81	33	49	68	37
FA6903NW	77	31	55	45	43

Now available in GADSL compliant flame retardant grades.