

## TECHNOSTAT PLUS ELECTROSTATIC FILTER MEDIA



**Established in 1843, Hollingsworth & Vose Company is a global leader in the supply of technically advanced nonwoven and specialty papers used in electronics, battery, filtration, and industrial applications. H&V drives value in customers' products by inventing next-generation materials with superior performance. The company operates manufacturing sites and research centers in the Americas, Europe, and Asia, ensuring local support and consistent media formulations worldwide.**

**HV**<sup>®</sup>  
Hollingsworth  
& Vose

Filter makers' high-performance media of choice just got reformulated for significant improvement. New Technostat<sup>®</sup> Plus electrostatic air filter media provides an amazing 40% decrease in penetration. Technostat Plus advantages can range from higher media performance and processability to increased user safety and ease, or even to greater cost savings.

### Particle stopping power

Among high-efficiency air filtration media, Technostat Plus leads the way. It achieves aerosol penetration levels as much as 40% lower than standard Technostat grades at the same basis weight.

That particle stopping power provides filter makers with several choices. Some applications — such as medical equipment filters trying to remove every possible virus or bacteria, or HVAC filters attempting to meet strict efficiency standards — simply demand the lowest possible penetration. Technostat Plus delivers just that. In the case of face masks and respirators, Technostat Plus combined with meltblown may provide significantly lower resistance than similar composites employing standard Technostat.

Other applications — such as vacuum cleaners and automotive cabin air filters — may put a premium on portability or price. With Technostat Plus, media mass can be reduced up to 25% while still achieving penetration levels equivalent to standard Technostat. Result: lighter weight for lower cost.

### Proven benefits

Manufacturers have long specified Technostat wherever filters protect users against hazards including pollen, pollution, and fine airborne contaminants. This industry-leading electret media exhibits exceptionally low resistance, HEPA high efficiency, and very high dust loading, depending upon chosen media weight.

Now the reformulated fiber blends in Technostat Plus deliver all the benefits of Technostat — plus greatly improved particle stopping power.

### Technostat Plus advantages

- Ultra-low penetration of sub-micron (0.3  $\mu$ ) particles
- Ultra-high efficiency
- Extremely high dust-holding capacity
- Extremely low airflow resistance/pressure drop
- Choice of reduced media weight for lower cost
- Easy processability on existing production machines
- Stable shelf life



### Ideal applications

**Respirator.** Dramatic 40% drop in penetration can safeguard users by catching more particles. When composited with meltblowns, Technostat Plus can offer lower airflow resistance for easier breathing — or lower weight, for less cost and easier budgeting. Meets major respirator standards.

**Vacuum.** Today's powerful vacuum cleaners demand Technostat Plus processability and dust-holding performance in primary filters. Low resistance, critical to motor cooling and high air volume, is also ideal for secondary filters. Minimum 5-year charge-holding means longer filter life.

**Cabin.** High dirt-holding plus low penetration and resistance help Technostat Plus maximize passenger protection while allowing smaller filter/fan size and workload. Also help decrease engine demand and fuel consumption while boosting efficiency in all types of vehicles.

**Medical.** Record low penetration of sub-micron particles makes Technostat Plus the media of choice for respiratory support filters. Nothing else removes viruses and bacteria as effectively from clinical environments and medical-equipment airways.

**HVAC residential.** Technostat Plus's low airflow resistance and excellent clean air delivery rating (CADR) help reduce fan size, energy use, and noise in filters for portable and central air conditioning/heating, room air purifiers, and high-flow units. Used with wire mesh on pleatable substrate.

**HVAC industrial.** Operators of AC and filtration equipment in factory, office, and retail environments can choose among results including smaller fan sizes, less frequent filter changes, LEED or standards compliance, or lower media weight for lower cost with Technostat Plus.



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### Improved Penetration

