

# High-efficiency, electrostatic air filter media available with activated carbon

A world of air filter media.  
Discover GESSNER's filter media range - available with activated carbon.

Discover our activated carbon air filter media, distinguished by its high-efficiency, electrostatic particle filter layer.

We now offer our Alphastar™ tribo-electric nonwoven and NeenahPure™ meltblown nonwoven with an activated carbon layer for pleatable and bag filters. These high-efficiency, electrostatic filter media can be developed meeting your individual requirements from high efficiency filtration to standard requirements.

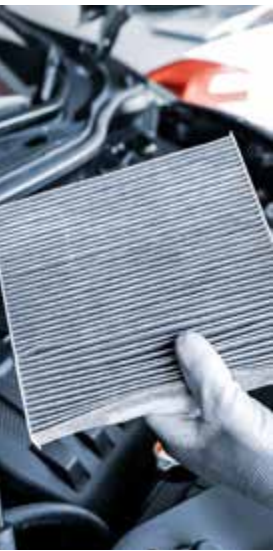
The active carbon layer captures and neutralizes a wide range of impurities, including volatile organic compounds (VOCs), odors, and other contaminants.

We offer a wide range of particle filter media that can be combined with a tailor-made activated carbon layer. This allows us to respond to individual requirements and properties, adapting the filter media to your needs.

## OUR BENEFITS

- Range from highest to standard efficiency
  - Efficiencies from MERV 8 - MERV 16 (ASHRAE 52.2)
  - Efficiencies from ePM10 - ePM1 (ISO 16890)
- Customized activated carbon layers
- High performance-to-weight ratio
- Highly effective against pollen and airborne allergens
- Tailor-made solutions for industrial, transportation, and air filtration application

## High efficiency, electrostatic air filter media for best in class performance.



### Alphastar™ Tribo-electric nonwoven

Alphastar™ triboelectric filter media uses electrostatic forces to effectively capture airborne particles such as dust and pollen. This technology enables the filter media to outperform traditional non-electrostatic ones by capturing a broader range of pollutants with less energy usage. Our Alphastar™ materials provide superior filtration performance with high dust holding capacity, low resistance to airflow, and high removal efficiency.

- Highest removal efficiencies
- Minimal resistance to air flow
- Reduced energy consumption

### NeenahPure™ Highly charged meltblown nonwoven

Our NeenahPure™ product range is our highly-charged meltblown media solution for pleatable and bag filters in HVAC, air purification & air pollution control applications to provide clean indoor air for a better protection.

- Superior charging technology
- Long-term charging stability
- Antimicrobial coatings optional

	Basis Weight [g/m <sup>2</sup> ]	Thickness [mm]	Air Perm. <sup>1</sup> [l/m <sup>2</sup> s]	DHC +50 Pa <sup>2</sup> [g/m <sup>2</sup> ]	Initial Eff. KCl 0,3 µm <sup>3</sup> [%]	Efficiency Ratings	Available with Activated Carbon
AWS1301 Alphastar™	94	>1,7	>2300	115	78	ISO16890: ePM10 90%	Yes
CAB533 NeenahPure™	37	0,7	2100	40	50	ISO 16890: ePM10 80%	Yes
CAB602 NeenahPure™	75	0,8	3000	45	>25	ISO 16890: ePM10 60%	Yes

<sup>1</sup> 200 Pa

<sup>2</sup> SAE fine, 20 cm/s, 75 mg/m<sup>3</sup>

<sup>3</sup> KCl, 1%, 20 cm/s

## Area of applications for air filter media with activated carbon.

Activated carbon filter media is renowned for its remarkable ability to adsorb impurities and odors, making it an indispensable resource across various industries. Its versatility and effectiveness in improving air quality highlight its critical importance in ensuring cleaner and healthier surroundings.

**HVAC:** Removal of pollutants in air conditioning, ventilation & extraction systems

**CABIN AIR:** Removal of pollutants in cabin ventilation systems

**KITCHEN:** Removal of odorous substances in kitchen extractor hoods and refrigerator filters

### INDUSTRIAL:

- Natural gas purification
- Flue gas cleaning following waste incineration plants
- Exhaust air purification after production processes
- Purification of process gases