

Nonwoven filter media (special for trapping PM2.5) can be used in air purification systems, heating, ventilation, and air conditioning (HVAC) systems, personal protective equipment (PPE) like face masks and respirators, as well as various home-used appliances such as air conditioners and dehumidifiers. The filter media are designed to improve indoor air quality by capturing fine particulate matters, eliminating pathogens, and reducing VOCs.



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Researched, Designed & Manufactured in Hong Kong

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## ong Kong Science &

R&D at Hong Kong Science & Technology Park and Production at its Advanced Manufacturing Centre

# NONWOVEN FILTER MEDIA



### **SPECIAL FOR TRAPPING PM2.5**

TNCA-16

## **KEY FUNCTIONS & BENEFITS**

#### **IMPROVED AIR QUALITY**

Contribute to healthier indoor environments by capturing PM2.5 particles and removing volatile organic compounds (VOCs) effectively due to the extremely high specific area of nanofibers

#### **ENHANCED SAFETY**

The antimicrobial properties of nanofibers reduce the spread of airborne pathogens, making them particularly valuable in healthcare settings and during pandemics

#### LONGER FILTER LIFE

Antimicrobial treatments help prevent microbial growth on the filter surface, extending its lifespan and reducing maintenance needs

#### **ENVIRONMENTAL BENEFITS**

Achieve high filtration efficiency at low air resistance and minimum use of materials due to the extremely high specific surface area and high porosity of nanofibers, thus reducing energy consumption and burden on landfills significantly

#### **HIGH VERSATILITY**

Can be used alone as a pre-filter or used in conjunction with other filtering materials through lamination to develop various high-graded air filters such as H13 high efficiency particulate arresting (HEPA) filter



#### NANOFIBER TECHNOLOGY



- Trap PM2.5 effectively by proprietary partially gelled submicron fibers interweaved with nanofibers in the filter media
- Kill over 99% of bacteria and viruses on the spot by electrostatic attraction and hydrophobic interaction
- ✓ Remove VOCs by catalytic conversion



