CNSAC
cardiology neurology sleep

Consumables and accessories for neurology, sleep medicine and cardiology

KN95/N95 Mask – Protective Mask

KN95/N95 mask is suitable for protection from bacteria and viruses (risk-reduction measures).

A study (Seto et al. 2003) conducted in Hongkong could show that KN95/N95 mask can reduce risk of infection by diseases such as SARS (severe acute respiratory syndrome).

CDC (Centers for Disease Control and Prevention) recommend application of KN95/N95 mask for risk situations, because KN95/N95 can filter particles from 1 µm, with at least 95 % filter capacity and a leakage of 1 % according to NIOSH (National Institute of Occupational Safety and Health).

Referenze:

- Seto et al. (2003) Effectiveness of precautions against droplets and contact in prevention of nosocomial transmission of severe acute respiratory syndrome (SARS). Lancet. 361: 1519-1520
- Centers for Disease Control: Guidelines for preventing the transmission of tuberculosis in health-care settings, with special focus on HIV-related issues. MMWR 1994: 43: 1-132
- US Department of Health and Human Services: NIOSH guide to the selection and use of particulate respirators certified under 42 CFR 84. 1996. DHHS Publication No. 96-101: www.cdc.gov/niosh

Item Nr.: HC-1050 CE

1. Nanofiber protective mask with virus protection function

- This mask adopts a gradient filtration effect from the micron to the micro-nano level in the composite structure of melt-blown electrostatic cotton and nanofibers, which allows this Nanofiber protective mask can have 95 % filtration efficiency for standard particles of 0.3 um.

2. Nanofiber protective mask filter in product structure

- This mask provides 4 layers: spun-bond protective layer, primary filter layer (PP meltblown cotton), high-efficiency filter layer (nano-fiber membrane), and spunbond support layer through ultra-wave.
  - The melt-blown non-woven fabrics have a diameter of 2-10 um and can block large particles above 2 microns;
  - Nanofiber membranes have a diameter of 100-200 um, and the three-dimensional porous structure in it can effectively isolate pollen, viruses and other pollutants in 0.5 um.

3. New features in this nanofiber protective mask:

- Gradient Filtering Structure: This product uses a composite structure of meltblown electrostatic cotton and nanofibers to achieve a gradient filtration effect from micron to nanometer level.
- Stable filtration performance: This product can be applied to various environments, and can maintain high-efficiency filtration in various environments such as humidity and disinfection. This product mainly relies on physical filtration. After removing static electricity, the filtration stability is more than 80 %, while the traditional electrostatic metlblown cotton has a filtration efficiency of only 15-25 % after removing static electricity.
- High filtration accuracy: This product uses ultra-fine nanofibers as the core filter layer, and the filtration accuracy is less than 100 nm. It can be efficiently intercept ultrafine particles such as respiratory droplets, PM2.5 and viruses.

Product performance and self-inspection report

Structure layer	Gram weight (g/m²)	Filter Resistance (Pa)		Filter Effect (%)	
		With Static electricity	No Static electricity	With static electricity	No static electricity
Spunbond non-woven protective layer	15-25, 75-100	38 -45	42-50	≥ 95%	≥ 85%
PP meltblown cotton	15-20				
nanofibers	5-10				
Spunbond non-woven support layer	40-45				

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