

KN95/N95 Respirators

V-Guard's KN95/N95 Respirators, with a filtration capacity of 95%, are made of a fine mesh of non-woven polypropylene fabric with different layers of unique hydrophobic and hydrophilic properties. The inner layer made by a unique melt blowing technique filters out viruses, bacteria, and other hazardous particles.

- ✔ 95% filtration capacity
- ✔ No valve respirators
- ✔ Adjustable nasal splint
- ✔ One size fits all
- ✔ Available for surgical and commercial purposes

Material Composition

- ✔ Non woven fabric
- ✔ Melt blown inner layer
- ✔ Latex free

Intended Usage

- ✔ Front line workers
- ✔ Medical clinics and surgical rooms
- ✔ Laboratory procedures

Standards and Specifications

Parameter	Medical KN95 (GB 19083-2010)	Commercial KN95 (GB2626-2006)
Labelling information on Respirator	Number and year of publication of standard and type and grade of Filter elements (i.e. KN 95)	
Nasal Splints	Must be adjustable	N/A
Mask Harness	No less than 10 Newtons(1Kg) per strap	N/A
	Ear Loops are allowed	N/A
Fit	The mask shall be designed as to provide a good fit and overall fit factor of the mask shall not be less than 100	The disposable facepiece structure shall ensure the tight fitting with face and be free from deformation during the service life
Filter Performance (must be >=X% efficient)	>= 95%	>= 95%
Test Agent	Sodium Chloride (NaCl) Particles	Sodium Chloride (NaCl) Particles
Flow Rate	85L/min	85L/min
Inhalation Resistance	<=343.2Pa	<=350Pa
	Flow Rate	85L/min
Exhalation Resistance	N/A	<=250Pa
	Flow Rate	N/A
Synthetic Blood Penetration	2ml of synthetic blood sprayed on the mask at 10.7KPa and no penetration shall occur on inner side of mask	N/A
Surface wetting resistance	Outside surface spray rating shall not be less than specified in Grade 3 of GB/T47-45-1997	N/A

Microorganism Index (Bioburden)	Total Bacteria count ≤ 200 CFU/g	N/A
	Total Fungus colony count ≤ 100 CFU/g	
	Coliform Bacteria: Not Detectable	
	Pseudomonas Areginosa: Not detectable	
	Staphylococcus aureus: Not Detectable	
	Hemolytic streptococcus: Not detectable	
Biological Filtration Efficiency	N/A	N/A
TIL (Total Inward resistance)	N/A	TIL of at least 46 actions of 50 actions in all, in the case of each action as the evaluation basis (namely 10 testees*5 actions Total TIL 8 testees of 10 testees in all, in the case of at total TIL of each testees as the evaluation basis KN 95 < 8%
Exhalation Valve leakage requirement	N/A	Depressurization to 0Pa ≥ 20 sec
Force Applied	N/A	1180Pa
CO2 clearance	N/A	$\leq 1\%$