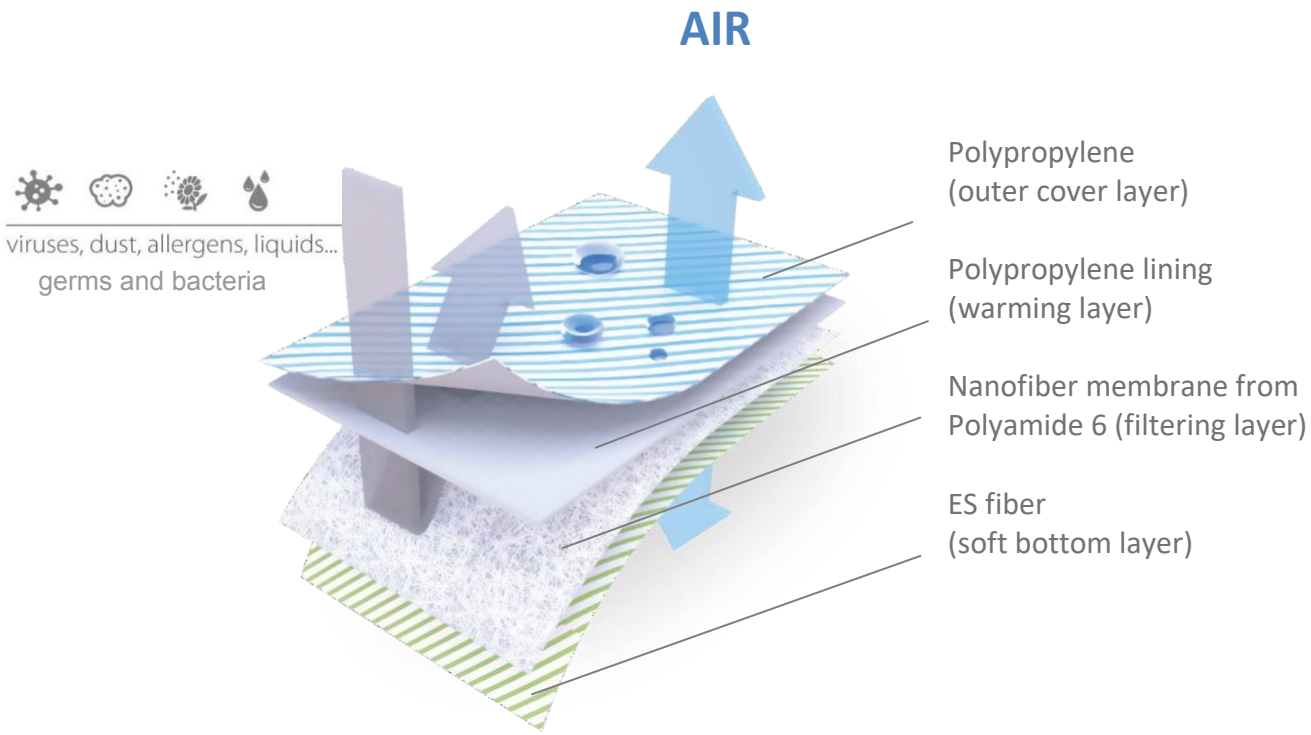
Technical Data Sheet
R46™ KN95 Respirator Mask

The R46™ KN95 Respirator half mask was developed for use by professional medical staff, pharmacists, laboratory staff, rescuers, police, firefighters, soldiers and other professionals. The unique combination of filtering materials provides reliable protection under the toughest conditions, at work and in the field, and in emergency situations. R46™ KN95 Respirator masks protect human health and is guaranteed to function optimally in a variety of work conditions.

Composition and functionality of R46™ KN95 Respirator Mask



LAYER	COMPOSITION	FUNCTIONALITY
Outer cover layer (18 g/m2)	Polypropylene (PP)	Resistance to penetration by easy-penetrating liquids (paraffin oil, etc.) and body liquids (including, blood)
Lining (25 g/m2)	Polypropylene nonwoven (PP)	Warming
Nanofiber membrane RNF	Polymide 6 (PA6)	Filtration of solid particles (smog, dust, pollen, etc.) and microorganisms (viruses, bacteria)
ES fiber (20 g/m2)	Polyetylene and Polypropylene (PE/PP)	Better comfort while using R46™ KN95 Masks, longer duration

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Performance

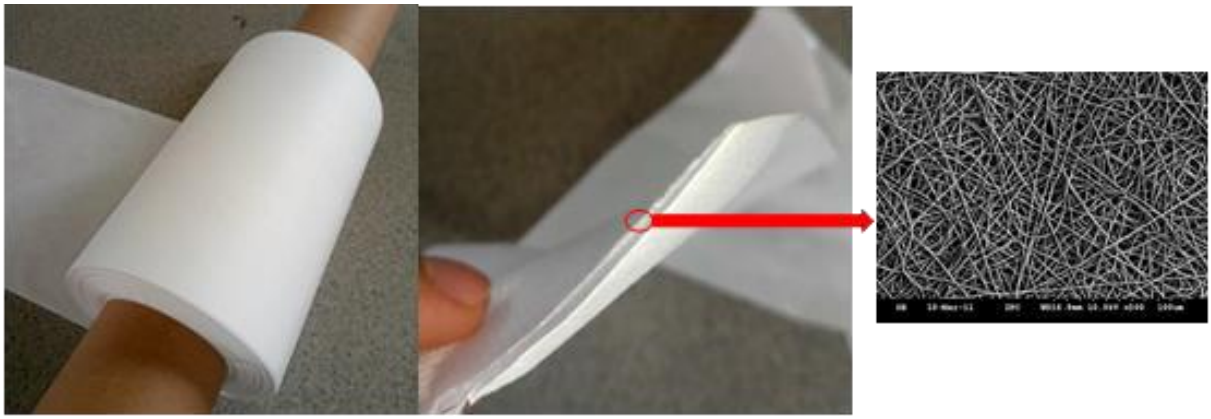
The R46™ KN95 Respirator half-mask meets the protective level FFP1 according to EN 149:2009.

PHYSICAL PROPERTIES	READING	UNIT
Filtration Efficiency NaCl	98.70	%
Filtration efficiency DESH	95.55	%
Inhalation resistance @ 30 l/min	44	Pa
Inhalation resistance @ 95 l/min	165.67	Pa
Exhalation resistance	242.33	Pa

Nanofiber filter

The key filtering functionality of the R46™ KN95 Respirator half-mask is provided by the RNF nanofiber membrane.

Outer layer: PP meltblown 18 g/m2 meltblown
Inner layer: Nanofiber layer polymer PA6
Outer layer: PP spunbond 25 g/m2



PHYSICAL PROPERTIES	READING	UNIT	
Area weight	54	g/m2	
Filtration efficiency @ 0.26μm NaCl	≥ 98.78	%	0.26μm NaCl aerosol (CMD0.075 μm) 85L/min, TS18130
Filtration efficiency @ 0.3μm DESH	≥ 95.67	%	0.3μm DESH or other oil particles (CMD0.185μm), 85L/min, TS18130
Breathability	110	ΔP (Pa/cm2)	
Skin irritability	0	-	EN ISO 10993-1

RNF material tested in accordance with GBT32610-2016 standard. Particles protection effect of RNF is Grade A, according to GBT 32610-2016, and particle(s) protection effect of RNF is assessed at KN95, according to GB2626-2006.

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Face Fit and Shape

The R46™ KN95 Respirator half-mask is anatomically shaped and fits comfortably. It has a metal nose clip that ensures a clean seal in this critical area. Thanks to this unique combination of having a protective element as well as a natural and comfortable shape, particles do not enter inside the mask. The mask is secured with soft ear loops that are fixed behind the ears, making for a comfortable face fit.

R46™ KN95 Notes:

According to 3M's Technical Bulletin of January, 2020, Revision 2, Comparison of FFP2, KN95, and N95 and Other Filtering Facepiece Respirator Classes, the KN95 is considered an "equivalent" to the U.S. NIOSH N95 (42CFR84) and the European FFP2 respirator (EN 149-2001), for filtering non-oil based particles such as those resulting from wildfires, PM 2.5 air pollution, volcanic eruptions, or bioaerosols (e.g., viruses). This item is made in Mexico.

R46™ KN95 design

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