



India
का अपना
Mask

99.9% PROTECTION FROM



Bacteria



Pollen



Dust



Haze



Smoke

Tested By
SITRA
Service for Excellence



About SWASA 3PLY Mask & Features

- ❑ **SWASA 3PLY Mask** is Jointly developed by **E-Spin Nanotech Pvt Ltd** and **Indian Institute of Technology Kanpur**.
- ❑ **SWASA 3PLY Mask** is highly advanced in terms of respiratory protection and stop the transmission of bacteria or any kind of air pollution infection.
- ❑ **SWASA 3PLY Mask** can filtrate the smallest particle Similar to smaller than bacteria size with maximum efficiency of at least 99.9%.
- ❑ This is manufactured with high quality membranes and OEKO TEX Standard.
- ❑ **SWASA 3PLY Mask** have advanced technical specifications when compared to any other available 3Ply masks in the market.
- ❑ **SWASA 3PLY Mask** has excellent air permeability, multilayer membrane protection, very low pressure drops, easy breathability and very good mechanical strength.
- ❑ The agronomical design of **SWASA 3PLY Mask** makes it more comfortable in fitting, wearing and speaking, the design provides salient features of light weight and complete seal of nose and mouth closely to the face and provide strongest protection against the any kind of contamination.

3 Layer Face Mask

- ❑ The inner layer is skin friendly non-woven fabric
- ❑ The Middle layer (melt blown) is the most important core layer, which uses a melt spray cloth with electric treatment to filter bacteria.
- ❑ The outer layer is water proof non-woven fabric



Features

Feature	SWASA 3Ply Mask
PM 2.5 Filtration protection	99.9%
Bacteria Protection	Yes
Other Pollutants	99.9%
Nose Pin	Yes adjustable
Ear Loop	OEKO-TEX standard
Mist trap layer	Yes
Breathability	Excellent
Pressure drop	Very Low
Size	Universal fit
Uses	1 time

How to wear a mask



Wear it with the coloured side facing out/ white side facing in



Ensure it covers the nose & mouth fully



Loop the strap over the ear



Use two fingers to press the concealed metal wire to fit the shape of the nose

Test Results

Test Parameter – IS 16289

Test Parameter	International / Indian Standard	Report	Unit
Differential Pressure	IS 16289 Annex C	38.73	Pa/cm ³
Splash Resistance	IS 16289 Annex D	Pass	160mm/Hg
Bacterial Filtration Efficiency	IS 16288	99.6	%

Test Parameter – ASTM F2100

Test Parameter	International / Indian Standard	Report	Unit
Differential Pressure	EN 14683- Annex C	36.72	Pa/cm ³
Splash Resistance	ASTM F1862	Pass	160mm/Hg
Particulate Filtration Efficiency at 0.3 microns	ASTM F2299	95.93	%
Bacterial Filtration Efficiency	ASTM F2101	99.6	%
Flammability	16 CFR 10	Class 1	

Test Parameter – EN 14683

Test Parameter	International / Indian Standard	Report	Unit
Differential Pressure	EN 14683- Annex C	46.4	Pa/cm ³
Splash Resistance	ASTM F1862	Pass	160mm/Hg
Bacterial Filtration Efficiency	EN 14683- Annex B	99.24	%

Material Grade

All material being used for the mask construction are OEKO-TEX grade

Layer Chemistry



Layer 1

25 GSM spun bond polypropylene membrane



Layer 2

25 GSM high static melt blown membrane



Layer 3

25 GSM spun bond polypropylene membrane

Usage

- ▲ High pollution area
- ▲ Uses for solid particulates and mist
- ▲ Always for user instructions and use in manners as indicated

Do Not Use for

- ▲ DO NOT use for gases and other chemical handling
- ▲ DO NOT use when breathing is very fast
- ▲ DO NOT use when the pressure drop across the membrane is very high
- ▲ DO NOT use when you feel suffocation
- ▲ DO NOT use if the mask is dirty and feel smell
- ▲ DO NOT use if it is used by any other person

Shelf Life and Storage

- ▲ 3 year from the date of manufacturing
- ▲ Store mask in the original packaging, away from contaminants areas, dust, extreme temperature, excessive moisture and chemical
- ▲ Store in normal temperature



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