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ZOOM SCIENTIFIC WORLD

# 4537/1-A, Deepak Market in Hanuman Market, Ground floor  
Ambala Cantt. - 133001 Haryana (India)  
Mob: 7404646444, 9996236069.

ISO 9001-2015 & CE Certified Company  
Export Import Code (IEC code) - 3312001811  
SSI No. - 060021100476  
GSTIN-06ALAPA6623N1Z8

To,  
Shri. Yashender Singh, IAS  
Deputy Commissioner, Rewari

Dear Sir,

As our country fights this exceptionally difficult epidemic, I believe that urgent emergency resources need to be deployed to cope with the needs of fighting the COVID-19 crisis, which is one of the toughest challenges the human race will face.

We at Zoom Scientific World are manufacturers of 3-Ply Medical Face Mask with BFE (specifications sheet attached) and want to put our nation first by offering our product at ₹3.50 per pc to government institutions. Please find a sample of our product attached for your perusal.

Please let me know anytime you have any questions or if we can help with anything else. I can be reached at +91 9996236069. Thank you for your service and look forward to your response.

Sincere regards,

S.R. Aggarwal  
For Zoom Scientific World  
Ambala Cantt

Manufacturers, Importers, Exporters, Suppliers & Distributors  
All KINDS OF LABORATORY EQUIPMENTS FOR SCHOOLS, COLLEGES & GOVT. ORDERS  
HEAD OFFICE - Hanuman Market in Deepak Market, Ground floor Ambala Cantt, Haryana (India)

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Office of the Deputy Commissioner, Rewari

Endst. No.

15938

/COVID

Dated

14-05-2020

A copy is forwarded to Civil Surgeon, Rewari for information & necessary action please.

*[Signature]*  
14/05/2020  
for Deputy Commissioner,  
Rewari

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CERTIFICATE OF ANALYSIS  
 NAME : ZOOM 3 PLY MEDICAL FACE MASK

SR.	TEST	SPECIFICATIONS	RESULTS
1	Type	3 PLY	3 PLY
2	Check for Integrity	Ultrasonically welded unbreakable layer	Complies
3	Outer Layer	PP Spunbond, 20 GSM	Complies
4	Filter Layer	Antimicrobial filter 25 GSM	Complies
5	Inner Layer	PP Spunbond, 20 GSM	Complies
6	Length	190.5 mm	Complies
7	Width	152.4 mm	Complies
8	Elastic Earloop	Spandex and Polyester (Round)	Complies
9	Weight	2.7 grams	Complies
10	Absorbance Test	NMT 0.1	Complies
11	Residue on Evaporation Test	NMT 5 mg	Complies
12	Acidity	NMT 1Ml. of 0.001 M HCl / NaOH	Complies
13	Heavy Metal ions Test	NMT 1PPM	Complies
14	Reducing (oxidizable Test)	NMT 2ml of 0.002 M KMNO4	Complies
15	Breathable: Resistance	mm 49.0 nascal/cm2	Complies
16	BFE and PFE (ASTM : F2101- 2019)	95% reduction of microbes	Complies
17	Antimicrobial Activity (AATCC 100-012)	> 99% reduction of microbes	Complies
18	Slash Resistance pressure	NIT 120	Complies
19	Decomposition Temperature	< 300 °C (572 ° F)	Complies

REMARKS:

Based on silver ion technology, the vital role of this fabric is to resist bacteria, fungi and algae. It contains active content of antimicrobial additives which interferes with the microbes cell metabolism, such that it cannot reproduce itself and hence keeping the product made of it fresh, hygienic and germfree.

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**TECHNICAL DATA SHEET**

Product	Anti-Microbial Spunbond Non-Woven Fabric		
Raw Material Grade	Polypropylene Homo-polymer Fiber Grade		
Decomposition Temperature	< 300 °C (572 °F)		
Melting Point	140-170 °C (284-338 °F)		
Product Composition	Polypropylene Raw Material	95%	
	Coloring Additives	2%	
	Antimicrobial Additives	3%	
Anti-Microbial Activity (AATCC 100-2012)	> 95 % reduction of microbes		
Bacterial Filtration Efficiency (BFE) (ASTM :F2101- 2019)	> 95 %		
Remarks	<ol style="list-style-type: none"> <li>1. Excellent breathability and permeability</li> <li>2. Can be used for Medical and Hygiene purposes such as making facemasks, sanitary napkins, diapers, gowns/aprons etc.</li> <li>3. Soft and Comfortable</li> </ol>		

**OTHER INFORMATION:-**

Based on silver ion technology, vital role of this fabric is to resist bacteria, fungi and algae. It contains active content of anti-microbial additive which is interferes with the microbe's cell metabolism, such that it cannot reproduce itself and hence keeping the product made of it fresh, hygienic and germfree.

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TECHNICAL DATA SHEET

Product	Spunbond Non-Woven Fabric for Face Masks
Raw Material Grade	Polypropylene Homo-polymer Fiber Grade
Decomposition Temperature	300 °C (572 °F)
Melting Point	140-170 °C (284-338 °F)
Product Composition	Polypropylene Raw Material 98% Coloring Additives 2%
GSM Range	18 to 40
Colour	White, Medical Blue, Medical Green
Width	175 mm to 250 mm
Length	2000 m to 5000 m (Standard rolls according to GSM)
Bacterial Filtration Efficiency (BFE) (ASTM F2101-2019)	> 95

TENSILE STRENGTH PROPERTIES

S. No.	GSM	N/5cms		
		MD Force (N)	CD Force (N)	% Elongation
	Applicable Standard WSP 130.1	Applicable Standard WSP 110.4	Applicable Standard WSP 110.4	Applicable Standard - WSP 110.4
1	20	20	10	40
2	25	25	13	40
3	30	30	15	40

REMARKS:-

- 100% Recyclable and Reusable
- Excellent breathability and permeability
- Degrades under exposure to UV/sunlight
- Can be used for Medical and Hygiene purposes such as making facemasks, sanitary napkins, gown, etc.
- Soft and Comfortable.

REGULATORY INFORMATION:-

Meets the requirements stipulated in IS 10910 on "Specification for Polypropylene and Isocopolymer for use in contact with foodstuffs, pharmaceuticals, and drinking water". Additives incorporated in this grade also conform to the positive list of constituents as prescribed in IS 10909.