ILIA
HIGH TECH COMPANY

Face Mask Catalog

Optimizing Safety, Maximizing Comfort

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ILIA

General information

Our company Ilia high-tech is one of the best in the field of supplier and exporter of high-tech products in the Middle East market now a days. Of note, we are providing your needs with high quality and very low cost in the overseas market.

With increasing of pollutants and airborne infected particles as well as respiratory infection such as influenza and Covid-19, use mask to blocking the entrance of air pollution and pathogens from breathing ways become a necessity.

Respiratory masks are made with several non-woven layers consisting of Spunbond, SMS and Meltblown that mainly made of woven polypropylene fibers. Meltblown and SMS layer play the main role in air filtering from suspended particles and dust and spunbond is the protector of middle layers in Mask.

Facial Protection Overview

N Series

Nano Masks are a kind of facepiece respirators that has meet the U.S. National Institute for Occupational Safety and Health (NIOSH).

- N95, N99, and N100 with filtration ratio 0.95%, 0.99%, and 0.99.7% respectively can protect the respiratory system against particulates bigger than 0.3 Micron but not against gases or vapors.

N95 Surgical

These can use as a disposable face mask in medical departments and also in public.

FFP Series

These are a type of protective mask certified by the European Union (EN149:2001) that serve to protect against particulates such as dust particles.

- FFP1, FFP2, and FFP3 respectively can Filter at least 80%, 94%, and 99% of airborne particles.

N95 Mask with or without Plastic Valve

Plastic valve is the way to move out air from lungs. It doesn't have any role in air filtration and it is only for flushing out carbon dioxide.

- The valves cause the effectiveness of the mask and only operates in one direction.

- These valves allow exhaled breath to bypass the filter.

- When you breath in, the air you breath is being filtered by the mask; when you breath out, it is not.

- A valved mask is let your breath out unfiltered; the valve acts as a little escape hatch for any virus-laden droplets you're breathing out.

The Useful Time of Respirators

- Surgical mask is a disposable mask while N and FFP masks can use 6-8 hours
- The valves mask doesn't suggest for using in surgery room

Nano Media

- Filter medias, nanofibers that produce by coating polymer nanofibers, cover on the surface of porous nonwoven fabric to filter particles with different size and high efficiency.

Pressure Drop (PI)

- Reducing pressure drop before and after the air passes through the mask. High pressure drop can make breathing hard.

Advantages of Nano Mask

- Higher performance of filtration
- No increase in pressure drop
- Long life time

Content List

Certificates

Environmental Management

Customer Satisfaction

Occupational Health & Safety

Quality Assurance Management

3-Ply Face Mask

Mask Type	3-Ply Face Mask
Model	RMTEW10, RMTEB10
Product Code	801587
Dimension	9.5 * 17.5 cm
Length of Elastic Bands	15 ± 0.5 cm
Weight	2.3 ± 0.3 g
The Number of Layers	1 Layer Spunbond and 1 Layer SMS that Coated with NanoFiber
Layers Weight	SMS = 40 g Spunbond= 17 g
Layers Efficiency	0.3 μm = 94.5 %, 95 % 0.5 μm = 94.8 %, 95 %
Pressure Drop	50-56 pa
Color	White and Blue
Ear Loops	Elastic
Sewing Type	Ultrasonic
Number of Masks in Box	50 Piece
Box Dimension	18.3 * 10 * 8 cm
Box Weight	26 ± 1 g
Number of Box in Cartoon	36 Piece
Carton Weight	6.4 ± 0.5 kg

3-Ply Face Mask

Nano Fiber Mask **95**
Non-disposable Surgical Earloop

ISO 9001|2015 **ISO** 13485|2016 **ISO** 10002 **GMP**

Particle Respirator NANO 95

50 PCS

Nonwoven layers
Nanofiber layers
Nonwoven layers

0.3 µm   **2.5 PM**   **3D wide**
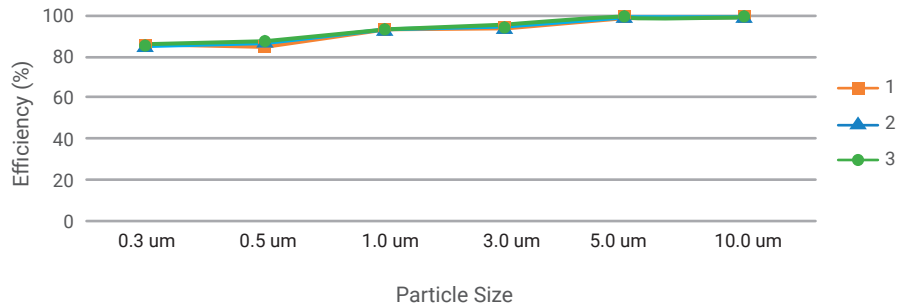
3-Ply Face Mask

Flat Sheet Media for Dust Face Mask, Filtration Performance Test Results

Test Conditions

- Test Apparatus: Filter Test
- Test Aerosol: Atmospheric Particles
- Air Flow Rate for Efficiency Test: 85 l/min
- Sample: 3-Ply
- Particles Tested Size: 0.3, 0.5, 1.0, 3.0, 5.0 and 10.0 µm

Filtration Performance of Flat Sheet Media for Dust Face Mask

Performance Results (According to BS EN 149)									
No.	Efficiency (%)						Pressure Drop (pa) @ (l/min)		
	0.3 µm	0.5 µm	1.0 µm	3.0 µm	5.0 µm	10.0 µm	30	85	95
1	85	86	92	95	99	99	56	169	193
2	86	89	91	97	99	99	49	143	160
3	85	87	93	96	99	99	52	149	167

Flat Fold Face Mask

Mask Type	Flat Fold Face Mask
Model	RMFNW10
Product Code	801586
Dimension	10 * 23.5 cm
Length of Elastic Bands	21 cm
Weight	4 ± 1 g
The Number of Layers	1 Layer Spunbond and 1 Layer SMS that Coated with NanoFiber
Layers Weight	SMS = 40 g Spunbond= 17 g
Layers Efficiency	0.3 µm = 94.5 %, 98.9 % 0.5 µm = 98.9 %, 95 %
Pressure Drop	≤ 240 pa
Color	White and Blue
Soap	Have Not
Ear Loops	Elastic
Sewing Type	Ultrasonic
Number of Masks in Box	3 Piece
Pack Dimension	26-30 * 10.5 cm
Pack Weight	14 ± 1 g
Number of Box in Cartoon	250 Piece
Carton Weight	6.4 ± 0.5 kg

Nano Media

Full Ultrasonic
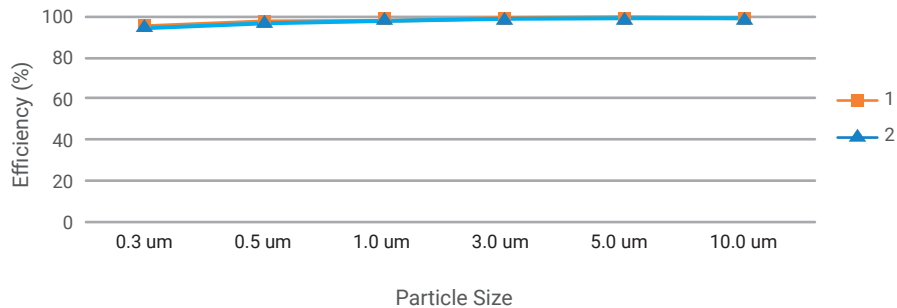
Flat Fold Face Mask

Flat Sheet Media for Dust Face Mask, Filtration Performance Test Results

Test Conditions

- Test Apparatus: Filter Test
- Test Aerosol: Oil, Atmospheric Particles
- Air Flow Rate for Efficiency Test: 95, 85 l/min
- Sample: Flat Fold Nano95
- Particles Tested Size: 0.3, 0.5, 1.0, 3.0, 5.0 and 10.0 μm

Filtration Performance of Flat Sheet Media for Dust Face Mask

Performance Results (According to BS EN 149)									
No.	Efficiency (%)						Pressure Drop (pa) @ (l/min)		
	0.3 μm	0.5 μm	1.0 μm	3.0 μm	5.0 μm	10.0 μm	30	85	95
Flat Fold Atmospheric	95	97	98	99	99	99	42	125	143
Flat Fold - Oil	94	96	97	99	99	99	42	125	143

**Flat Fold
Face Mask**

FFP1 Face Mask

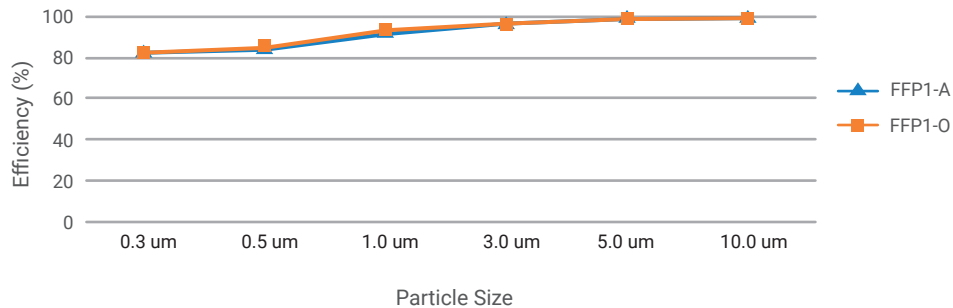| Mask Type	Cone Type Respirator Face Mask (FFP1)
Model	RMVMW11
Product Code	801580
Dimension	12 * 15.5 cm ± 1 cm
Length of Elastic Bands	54 ± 3 cm
Weight	13 ± 1 g
The Number of Layers	3 Layer Spunbond Fabrics and 2 Layer SMS Fabrics that Coated with NanoFiber
Layers Weight	SMS = 40 g , Spunbond= 17 g
Layers Efficiency	0.3 μm = 80 % , 93.9 % 0.5 μm = 81 % , 93.9 %
Pressure Drop	≤ 210 pa
Color	White
Printing Color	Black
Sewing Type	Ultrasonic
Soap Type	Slotted and Simple
Soap Color	White and Gray
Silicon Color	White, Colorless and Yellow
Earning Color	White and Gray
Number of Masks in Each Pack	1 Piece
Pack Dimension	14 * 20 cm
Pack Weight	5 ± 1 g
Number of Packs in Each Cartoon	300 Piece

FFP1 Face Mask

Flat Sheet Media for Dust Face Mask, Filtration Performance Test Results

Test Conditions

- Test Apparatus: Filter Test
- Test Aerosol: Oil, Atmospheric Particles
- Air Flow Rate for Efficiency Test: 95, 85 l/min
- Sample: FFP1
- Particles Tested Size: 0.3, 0.5, 1.0, 3.0, 5.0 and 10.0 μm

Filtration Performance of Flat Sheet Media for Dust Face Mask

Performance Results (According to BS EN 149)									
No.	**Efficiency (%)**						**Pressure Drop (pa) @ (l/min)**		
	0.3 μm	0.5 μm	1.0 μm	3.0 μm	5.0 μm	10.0 μm	30	85	95
FFP1-Atmospheric	84	86	92	97	99	99	55	160	178
FFP1-Oil	85	87	94	98	99	99	55	160	178

FFP2 Face Mask

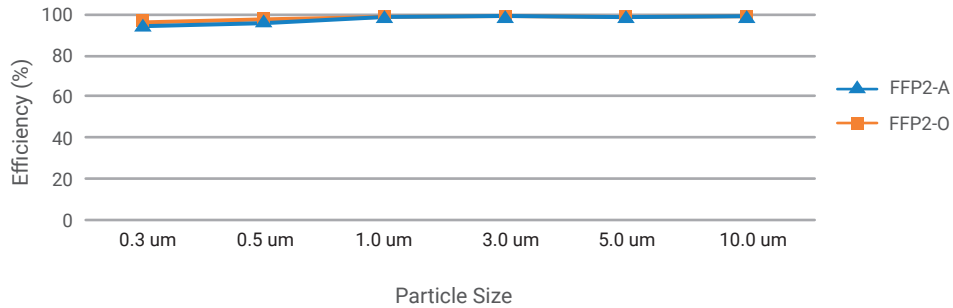| Mask Type	Cone Type Respirator Face Mask (FFP2)
Model	RMVMB12
Product Code	801581
Dimension	12 * 15.5 cm
Length of Elastic Bands	54 cm
Weight	13 ± 1 g
The Number of Layers	3 Layer Spunbond and 2 Layer SMS that Coated with NanoFiber
Layers Weight	SMS = 40 g Spunbond= 17 g
Layers Efficiency	0.3 µm = 94.5 % , 98.9 % 0.5 µm = 95 % , 98.9 %
Pressure Drop	210 ≤ 240 pa
Color	White and Blue
Printing Color	Black
Sewing Type	Ultrasonic
Soap Type	Slotted and Simple
Soap Color	White, Blue and Gray
Silicon Color	Colorless, Yellow
Earning Color	White, Blue, Gray and Purple
Number of Masks in Pack	1 Piece
Pack Dimension	14 * 20 cm
Pack Weight	5 ± 1 g
Number of Packs in Each Cartoon	300 Piece

FFP2 Face Mask

Flat Sheet Media for Dust Face Mask, Filtration Performance Test Results

Test Conditions

- Test Apparatus: Filter Test
- Test Aerosol: Oil, Atmospheric Particles
- Air Flow Rate for Efficiency Test: 95, 85 l/min
- Sample: FFP2
- Particles Tested Size: 0.3, 0.5, 1.0, 3.0, 5.0 and 10.0 µm

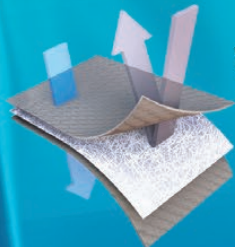### Filtration Performance of Flat Sheet Media for Dust Face Mask

Performance Results (According to BS EN 149)									
No.	Efficiency (%)						Pressure Drop (pa) @ (l/min)		
	0.3 µm	0.5 µm	1.0 µm	3.0 µm	5.0 µm	10.0 µm	30	85	95
FFP2-Atmospheric	97	98	99	99	99	99	53	157	176
FFP2-Oil	94	96	98	99	99	99	53	157	176

FFP3 Face Mask

Mask Type	Cone Type Respirator Face Mask (FFP3)
Model	RMVMB13
Product Code	801582
Dimension	12 * 15.5 cm
Length of Elastic Bands	54 ± 5 cm
Weight	13 ± 2 g
The Number of Layers	3 Layer Spunbond Fabrics and 3 Layer SMS Fabrics that Coated with NanoFiber
Layers Weight	SMS = 40 g , Spunbond= 17 g
Layers Efficiency	0.3 μm = 99 % , 99.9 % 0.5 μm = 99 %
Pressure Drop	≤ 300 pa
Color	White, Blue
Printing Color	Black
Sewing Type	Ultrasonic
Soap Type	Slotted and Simple
Soap Color	White, Purple and Gray
Silicon Color	Colorless and Yellow
Earning Color	White, Blue, Gray and Purple
Number of Masks in Pack	1 Piece
Pack Dimension	14 * 20 cm
Pack Weight	5 ± 1 g
Number of Packs in Each Cartoon	300 Piece

Nonwoven layers

Nanofiber layers

Nonwoven layers

0.3 μm

3D wide

2.5 PM

3D Wide

Multilayer

Certificated

2.5 PM
Particulate Matter

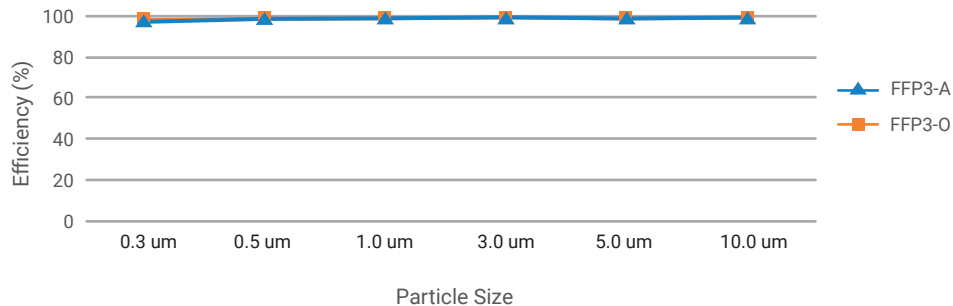0.3 μm
Particulate Matter

FFP3 Face Mask

Flat Sheet Media for Dust Face Mask, Filtration Performance Test Results

Test Conditions

- Test Apparatus: Filter Test
- Test Aerosol: Oil, Atmospheric Particles
- Air Flow Rate for Efficiency Test: 95, 85 l/min
- Sample: FFP3
- Particles Tested Size: 0.3, 0.5, 1.0, 3.0, 5.0 and 10.0 μm

Filtration Performance of Flat Sheet Media for Dust Face Mask

Performance Results (According to BS EN 149)									
No.	Efficiency (%)						Pressure Drop (pa) @ (l/min)		
	0.3 μm	0.5 μm	1.0 μm	3.0 μm	5.0 μm	10.0 μm	30	85	95
FFP3-Atmospheric	99	99	99	99	99	99	60	185	219
FFP3-Oil	99	99	99	99	99	99	60	185	219

N95 Face Mask

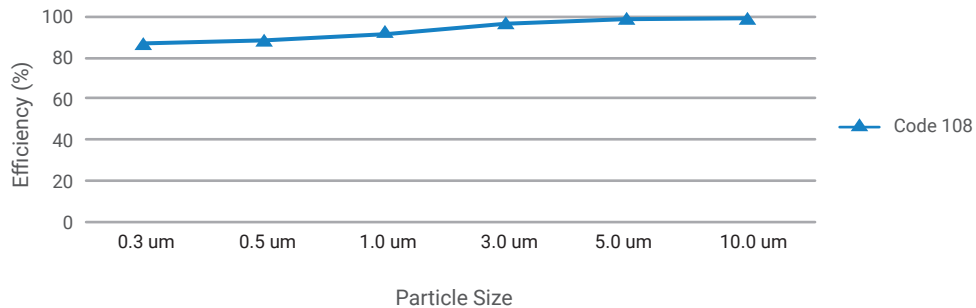| Mask Type	Cone type Respirator N95
Model	RMVLG12
Product Code	801589
Dimension	12 * 15.5 cm
Length of Elastic Bands	0.5 ± 54 cm
Weight	12 ± 1 g
The Number of Layers	SMS nano= 2 Spunbond= 3
Layers Weight	Sms nano= 40 g Spun bond= 17 g
Layers Efficiency	0.3 µm = 94.5 - 99.8 % 0.5 µm = 95 - 99.8 %
Pressure Drop	≤ 240
Color	Gray
Printing Color	Black
Sewing Type	Ultrasonic
Soap Type	Big and Simple
Silicon Color	White, Dark Blue and blue
Earning Color	White and Blue
Number of Masks in Pack	1 Piece
Pack Dimension	14 * 20 cm
Pack Weight	5 ± 1 gr
Number of Packs in Each Cartoon	300 Piece

N95 Face Mask

Flat Sheet Media for Dust Face Mask, Filtration Performance Test Results

Test Conditions

- Test Apparatus: Filter Test
- Test Aerosol: Atmospheric Particles
- Air Flow Rate for Efficiency Test: 85 l/min
- Sample: N95 Mask
- Particles Tested Size: 0.3, 0.5, 1.0, 3.0, 5.0 and 10.0 µm

Filtration Performance of Flat Sheet Media for Dust Face Mask

Performance Results (According to BS EN 149)								
No.	**Efficiency (%)**						**Pressure Drop (pa) @ (l/min)**	
	0.3 µm	0.5 µm	1.0 µm	3.0 µm	5.0 µm	10.0 µm	30	95
Code 108	91	94	98	100	100	100	42	142

C-Type Face Mask

Mask Type	C-Type
Model	RMCNB12
Product Code	801587
Dimension	13*16 ± 2 cm
Length of Elastic Bands	30 ± 4 cm
Weight	6.8 ± 8 g
The Number of Layers	4 Layer Spunbond and 1 Layer SMS that Coated with NanoFiber
Layers Weight	SMS = 40 g Spunbond= 17 g
Layers Efficiency	0.3 μm = 94 % , 98.9 % 0.5 μm = 98.9 % , 95 %
Pressure Drop	≤ 300
Color	Blue
Printing Color	Black
Sewing Type	Ultrasonic
Ear Loop	Elastic
Soap Type	Have Not
Ear Loop Color	White and Blue
Number of Masks in Pack	1 Piece
Pack Dimension	14 * 20 cm
Pack Weight	5 ± 1 g
Number of Packs in Each Cartoon	300 Piece

Nanofiber Mask 95

Nonwoven layers
Nanofiber layers
Nonwoven layers

Particle Respirator **N95**
★ C-Type ★

3D Wide Multilayer Cert

C-Type Face Mask

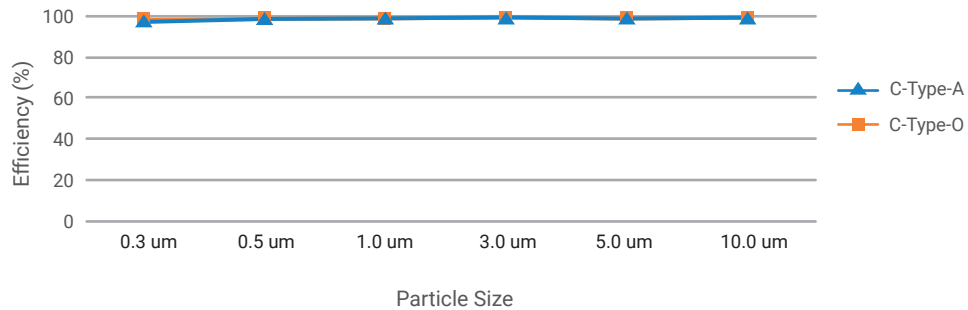0.3 µm

3D wide

2.5 PM

C-Type Face Mask

Flat Sheet Media for Dust Face Mask, Filtration Performance Test Results

Test Conditions

- Test Apparatus: Filter Test
- Test Aerosol: Oil, Atmospheric Particles
- Air Flow Rate for Efficiency Test: 95, 85 l/min
- Sample: C-Type Nano95
- Particles Tested Size: 0.3, 0.5, 1.0, 3.0, 5.0 and 10.0 µm

Filtration Performance of Flat Sheet Media for Dust Face Mask

No.	Performance Results (According to BS EN 149)								
	Efficiency (%)						Pressure Drop (pa) @ (l/min)		
	0.3 µm	0.5 µm	1.0 µm	3.0 µm	5.0 µm	10.0 µm	30	85	95
C-Type-Atmospheric	96	97	99	99	99	99	42	123	138
C-Type-Oil	94	96	99	99	99	99	42	123	138

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