

Contents

Cleanroom & ESD Fabrics / Garments

- 05 Recycled Cleanroom Fabric
- 06 Lint Free Static Control Fabric
Conductive Fabric
- 07 Sterilization Compatible Cleanroom Fabric
Non-ESD Fabric
- 08 ESD Knitted Fabric
CREORA® Askin Cleanroom Fabric
- 09 Cleanroom Underwear
- 10 Cleanroom Coverall
Cleanroom Hood
- 11 Cleanroom Gown
- 12 Cleanroom & ESD Apparel (Ready-made)
- 14 ESD Chemical Resistant Fabric
- 15 ESD Chemical Resistant Apron
ESD Chemical Open-back Coat
ESD Chemical Resistant Sleeves
ESD Chemical Resistant Gown
- 16 ESD Coolon Fabric
- 18 ESD Coolon Shirt
- 19 EPA Coolon Shirt
- 20 ESD Light Gown
ESD Lab Coat
- 21 MEC Fabric Collection
- 22 Lint-free Sewing Thread
Conductive Lint-free Ribbon
Conductive Spiral Cuff Fabric
- 23 Conductive Knitted Cuff Fabric
Non-ESD Knitted Cuff Fabric
Grosgrain Polyester Tape
Non-ESD Polyester Fabric

Cleanroom Socks

- 25 Reusable Socks
Reusable Tube Socks with no heel
Disposable Socks

Cleanroom Boots & Soles

- 27 Conductive Overboots
Static Dissipative Overboots
Accessories for Overboots
- 28 Static Dissipative Boots
- 29 Static Dissipative Safety Boots
Conductive Boots
- 30 Static Dissipative Hypalon Soles
Static Dissipative Flat Soles
- 31 Conductive NBR Soles
CSM Rubber Sheet for Soles

Cleanroom Goggles & Helmets

- 33 Autoclavable Cleanroom Goggles
- 34 Cleanroom Safety Goggles
- 35 Bump Cap
Cleanroom Safety Helmet

Cleanroom Gloves

- 37 Seamless Gloves
- 38 ESD Heat Resistant Gloves
- 39 Latex Gloves

Cleanroom Stationery

- 41 Cleanroom Paper
Cleanroom Notebook
- 42 Clip-on Notepads
Clean Sticky Notes
Cleanroom Clipboard
Cleanroom Ring Binder
- 43 Cleanroom Pen
Cleanroom Maker

Cleanroom Swab

- 45 PU Swab
- 46 Polyester Swab
ESD Polyester Swab

Cleanroom Vacuum Cleaner & Sealer

- 49 Cleanroom Vacuum Sealer (Nozzle type)
- 50 Cleanroom Vacuum Cleaner

Cleanroom Wipers & Supplies

- 53 Microfiber Cleanroom Wiper
 - Microfiber Woven Wiper
- 54 Polyester Knit Wiper
 - Micro-Denier Fiber Wiper
- 56 PVA Sponge Wiper
- 57 Cleanroom Face Mask
- 58 Sticky Mat
 - Frame For Sticky Mat
- 59 Cleanroom & ESD Chair
- 60 Cleanroom Mop
- 61 Mop Trolley
- 62 ESD Cleanroom Bags (Fabric type)
- 63 ESD Cleanroom Bags (TPU type)
- 64 Cleanroom LDPE Bag
 - Cleanroom Nylon Bag
 - Cleanroom Aluminium Bag
 - Cleanroom Static Shielding Bag
- 65 ESD Cleanroom Fabric Tape
 - Lead Frame Separator
 - Interleaf
- 66 Static Dissipative Plates
- 68 Medium Filter (Box type)
 - Medium Filter (Header type)
 - HEPA Filter (Mini Pleat type)
- 69 HEPA Filter (Standard)
 - ULPA Filter (Standard)



Cleanroom & ESD

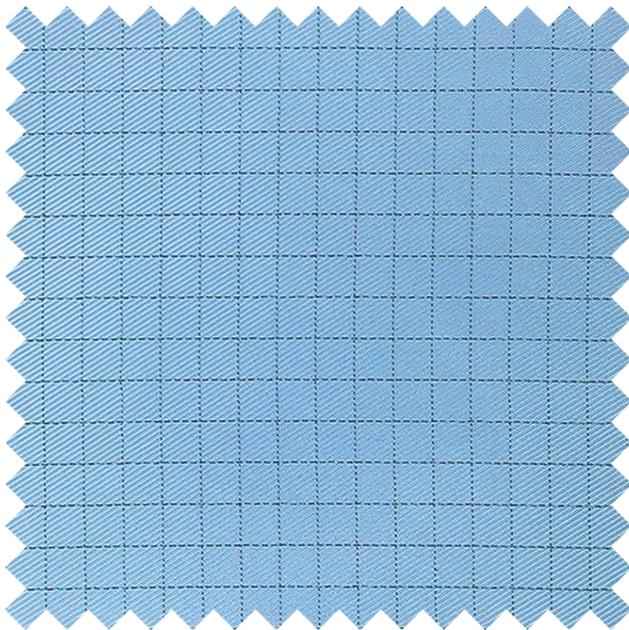
Fabrics & Garments

Cleanroom & ESD Fabrics

Recycled Cleanroom Fabric

Recycled Cleanroom Fabric supports sustainable development goals through recycling and reuse of raw materials for sustainable consumption. The cleanroom fabrics and garments are engineered to meet the highest industry standards while ensuring a greener future. The fabrics are made with recycled multi-filament polyester yarn offering excellent barrier performance.

The high-density construction provides enhanced particle filtration efficiency for critical applications in pharmaceutical, medical, biotechnology, semiconductor, and high-tech industries. The sustainable and reliable fabrics maintain superior contamination control while supporting environmental responsibility initiatives. The products demonstrate commitment to both performance excellence and environmental stewardship in manufacturing operations.



MDF-307R (M02F-036) offers excellent barrier performance with high density, made with recycled multi-filament polyester yarn, providing enhanced particle filtration efficiency. It is designed for use in cleanroom environments in the pharmaceutical, medical, biotechnology, semiconductor, and high-tech industries.

Descriptions

- Composition: 98% Polyester yarn (35% rPET), 2% Conductive carbon yarn
- Yarn count: PFY 75D x PFY 75D
- Density: 210 x 120 threads/inch
- Weave: 2/3 twill (4 mm Grid)
- Width: 58"/60"
- Weight: 115 gr/m²



MDF-199UTR (M12F-009) is made of recycled polyester microdenier yarn and high-multi polyester textured yarn, offering a soft hand feel with added bulk, stretch, and elasticity. It undergoes a sand washing process to further enhance softness by optimizing the fiber structure, making it ideal for undergarments and scrubs while supporting sustainability.

Descriptions

- Composition: 99% Polyester yarn (65% rPET), 1% Conductive carbon yarn
- Yarn count: PHY 75D x PMY 150D
- Density: 105 x 84 threads/inch
- Weave: Taffeta (5 mm Weft Stripe)
- Width: 58"/60"
- Weight: 95 gr/m²

Polstar® ESD / Cleanroom Fabrics are primarily composed of high multi-filament polyester and carbon filament yarn to insure maximum protection against particle contamination and ElectroStatic Discharge (ESD). The Polstar fabrics did not neglect to consider the salient concerns of the workers including air permeability, wearability and durability.

Features

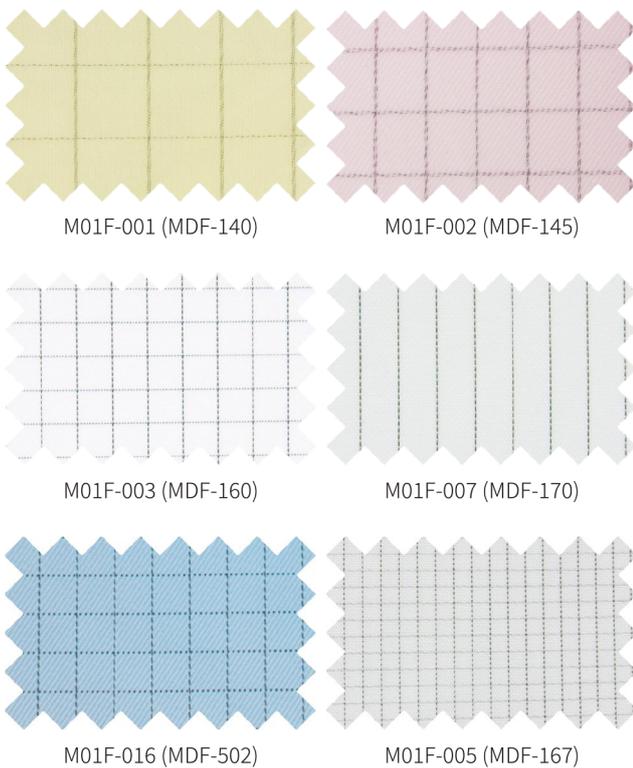
- Over 80 different fabrics
- Immediate delivery from our stock
- Strict quality control from our profound knowledge and wide experience
- Continuous development to meet customer's new requirement
- Additional treatments, such as silicone free, Teflon and antimicrobial are available.

Applications

- Electronic and semiconductor Industries
- Medical and Pharmaceutical Industries
- Food Industry
- Automotive Industry
- Aerospace Industry and many others



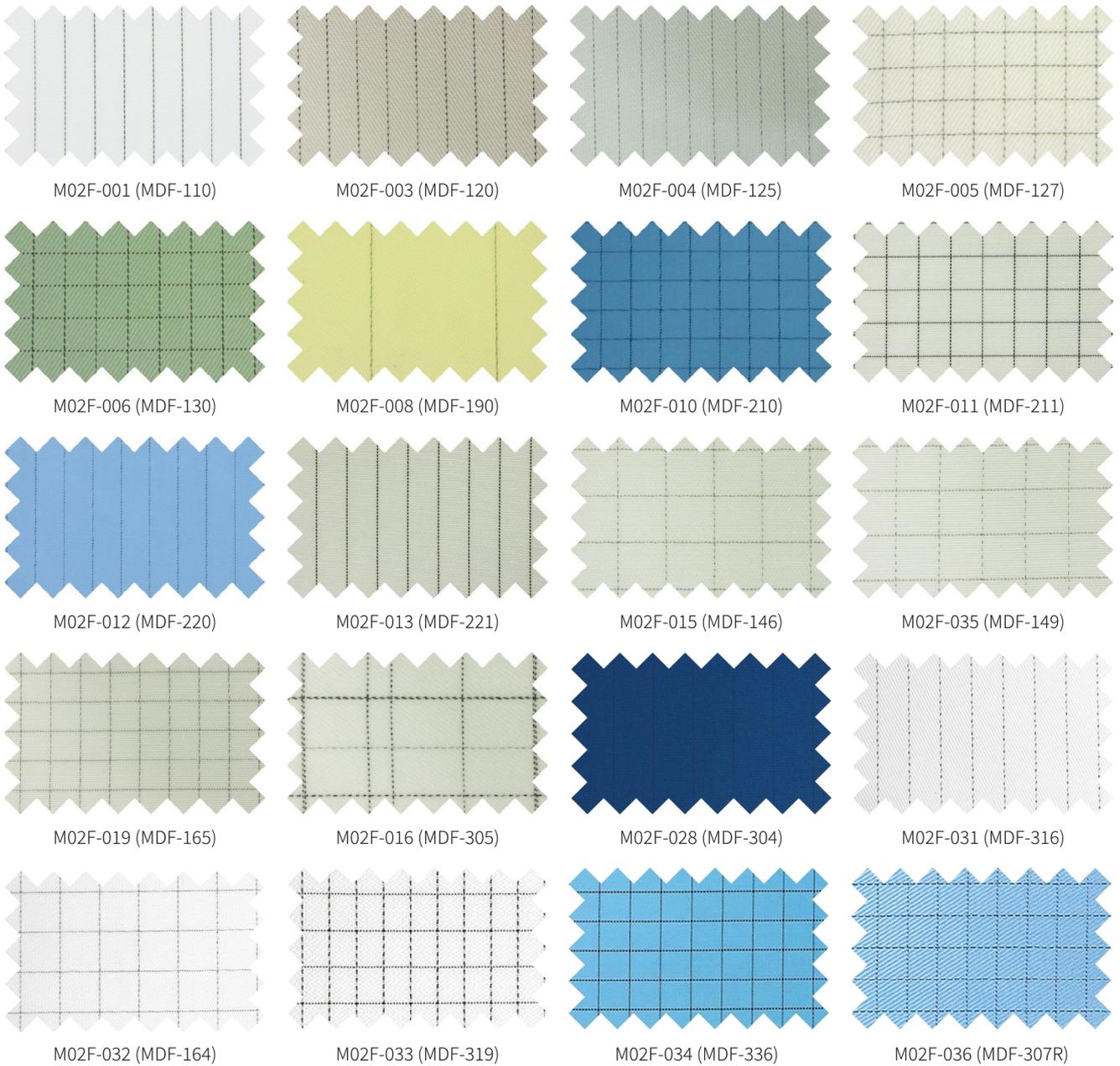
Lint Free Static Control Fabric



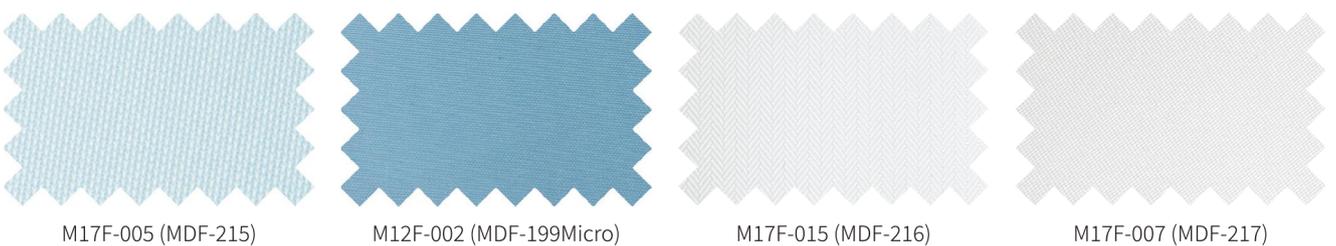
Conductive Fabric



Sterilization Compatible Cleanroom Fabric



Non-ESD Fabric



ESD Knitted Fabric

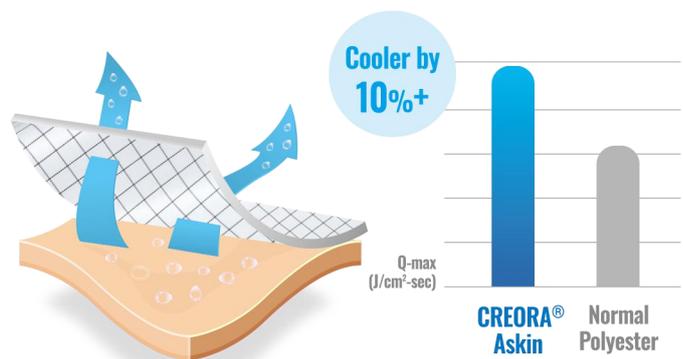
4 types of ESD Warp Knitted Fabrics having low surface resistance range of $10e5 \sim 10e6$ ohm are suitable for being used in ESD Category 3 garment. As they are in different patterns and density, customers can choose the most suitable fabric with wide color options for their needs.



Item Code	M15F-016	M15F-013	M15F-014	M15F-015
Model (P/N)	MDF-286	MDF-283	MDF-284	MDF-285
Descriptions	6×3 mm herringbone fabric	5 mm diapered light fabric	3 mm diapered fabric	6 mm diapered fabric
Composition	Polyester yarn 87% Conductive carbon yarn 13%	Polyester yarn 91%, Conductive carbon yarn 9%	Polyester yarn 93% Conductive carbon yarn 7%	Polyester yarn 98% Conductive carbon yarn 2%
Conductive Yarn	RESISTAT® F902 F044	RESISTAT® F902 F044	RESISTAT® F902 F044	RESISTAT® F902 F044
Width	60"/61"	60"/61"	60"/61"	60"/61"
Weight	125 g/yard	118 g/yard	195 g/yard	196 g/yard
Surface Resistance	$10e5 \sim 10e6$ ohm	$10e5 \sim 10e6$ ohm	$10e5 \sim 10e6$ ohm	$10e5 \sim 10e6$ ohm

CREORA® Askin Cleanroom Fabric

The CREORA® Askin is the brand name of functional cool touch yarn developed by Hyosung TNC, one of the leading textile companies, specialized in developing various synthetic fiber in Korea. It is specially-engineered polyester fiber to improve cooling compared to natural fiber.



Descriptions

- Woven fabric with CREORA® Askin Polyester filament yarn and Kanebo Belltron® B31 conductive yarn
- Composition: Polyester filament yarn 98% & ECF 2%
- Weave: Taffeta (5 mm grid)
- Width: 58"/60"
- Weight: 85 g/sqmt

Features

- Lint-free
- Static dissipative (S/R: $10e7$ ohm)
- UV Protection
- Smart Cool / Odor Removing
- Superior Sweat-absorbing property/fast drying function
- Better opacity
- Long lasting Freshness
- Gamma compatible and autoclavable





Cleanroom Underwear

Features

- Sand Wash treatment
- Soft touch and Lightweight
- Comfortable and Breathable
- Free from particle generation
- Pre-filtration of skin flakes generated from human body
- Autoclavable
- Gamma-ray, EtO sterilization Compatible
- ESD type (MDF-304, MDF-309, MDF-199UT) and Non-ESD type (MDF-199Micro)

Applications

- Worn underwear with laboratory coverall in Cleanroom
- Worn as an easywear in white gown at hospitals



Item Code	M46F-000	
Type	Long sleeve top	Short sleeve top
	Long pants	Short pants



M02F-028 (MDF-304) (3-8)



M02F-017 (MDF-309) (3-16)



M12F-001 (MDF-199UT) (3-20)



M12F-002 (MDF-199Micro) (5-4)

*Sample book No. 3-8, 3-16, 3-20, 5-4



Cleanroom & ESD Garments

Cleanroom/ESD Garment is used in the place where proper protection against particle contamination and Electrostatic Discharge is required. We can supply you with this garment as well as the fabric. We have various styles of garments such as Coverall, Gown, Lab Coat, T-shirt, etc. in our range.

Features

- Produced on your required fabric and design
- Produced by skilled workers with wide experience
- Produced with high quality fabric and sewing accessories
- Considering air permeability, comfortability, wearability and durability
- Strict quality control from fabric to finished garment
- Small quantities also can be supplied

Cleanroom Coverall



Cleanroom Hood

The Hood is required in Cleanroom together with Cleanroom garments to block particles generated from worker's head and neck. Customized fabrics and designs are available on request.

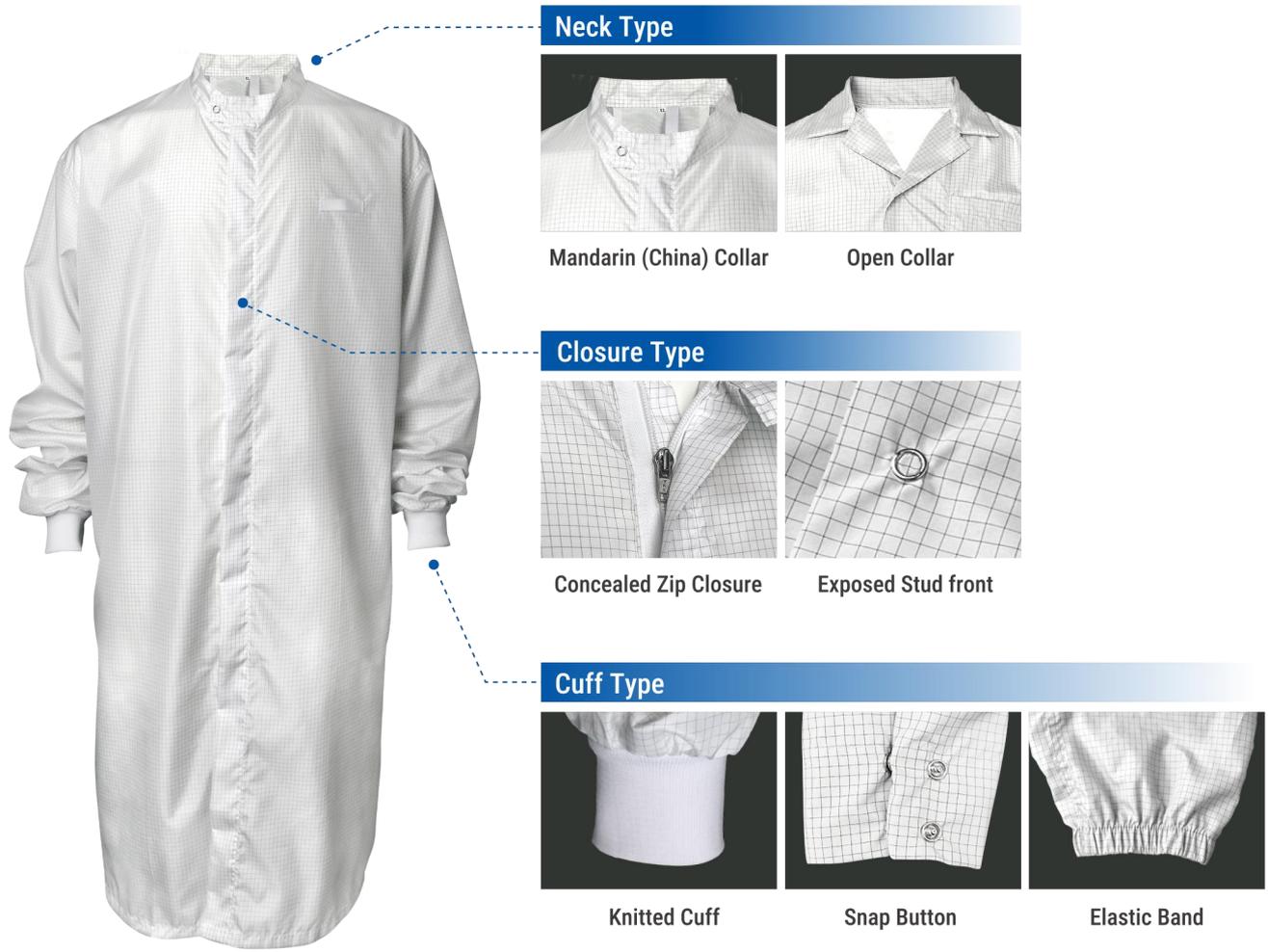


M11F-010



M11F-011

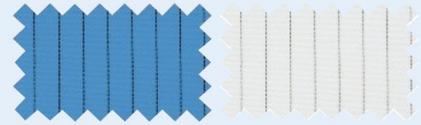
Cleanroom Gown



Company logo printing is available.



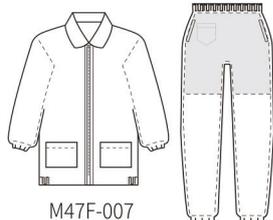
Cleanroom & ESD Apparel (Ready-made)



- **Fabric:** 5 mm stripe, Polyester 99%, Carbon 1% • **Color:** Sky Blue, White
- ANSI/ESD S20.20-2021 (ANSI/ESD STM2.1) • EN 61340-5-1 • Typical value: <math>< 1.0 \times 10^{11}</math>ohm (Static Control Garment)

ESD Jacket and Pants

M40F-003 (Set)

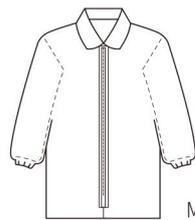


M47F-007 M48F-004

(cm)

Descriptions	S	M	L	XL	2XL	3XL	4XL
Chest (±1.5)	52	55	57.5	60.5	62.5	66.5	68
L (Back) (±1)	62	64.5	67	70	72	74	78
L (Sleeves) (±1)	52.5	54.5	56	58.5	60	62	64
W (Shoulder) (±0.1)	42.5	45	47.5	50	51.5	52.5	53.5
L (Pants) (±1.5)	96.5	98.5	102	103.5	105	108	111.5
Waist (Pants) (±1)	44.5	46.5	48.5	50	52	54	56
Hips	50.5	53	55	56	58.5	60	62
Thighs	34	36	36.5	37.5	39	39.5	41

ESD Safari

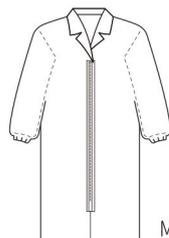


M41F-007

(cm)

Descriptions	S	M	L	XL	2XL	3XL	4XL
Chest (±1.5)	52	55	57.5	60.5	62.5	65.5	68
L (Back) (±1)	68.5	70	72	75	77.5	80.5	82.5
L (Sleeves) (±1)	52.5	54.5	56	58.5	60	62	64
W (Shoulder) (±1)	42.5	45	47.5	50	51.5	52.5	53.5

ESD Gown

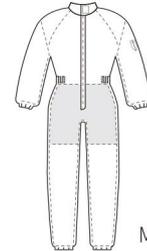


M41F-006

(cm)

Descriptions	S	M	L	XL	2XL	3XL	4XL
Chest (±1.5)	52	55	57.5	60.5	62.5	65.5	68
L (Back) (±1)	96.5	98	101.5	104.5	108.5	112.5	115
L (Sleeves) (±1)	52.5	54.5	56	58.5	60	62	64
W (Shoulder) (±1)	42.5	45	47.5	50	51.5	52.5	53.5

Cleanroom Coverall

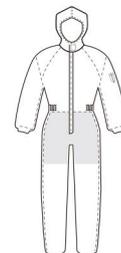


M42F-003

(cm)

Descriptions	S	M	L	XL	2XL	3XL	4XL
Chest (±1.5)	53	55.5	58.5	61	63.5	66	68.5
L (Back) (±1.5)	156	160	162.5	166.5	169	176	179
L (Sleeves) (±1.5)	80	83	84.5	87.5	89.5	91	92

Cleanroom Coverall with Hood



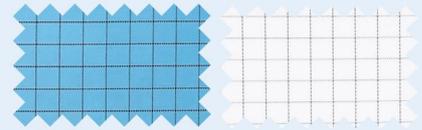
M43F-004

(cm)

Descriptions	S	M	L	XL	2XL	3XL	4XL
Chest (±1.5)	53	55.5	58.5	61	63.5	66	68.5
L (Back) (±1.5)	156	160	162.5	166.5	169	176	179
L (Sleeves) (±1.5)	80	83	84.5	87.5	89.5	91	92



Cleanroom & ESD Apparel (Ready-made)

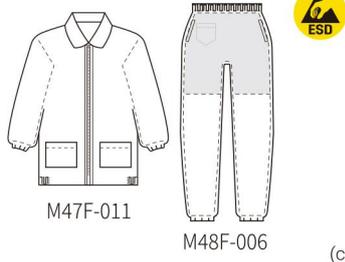


• **Fabric:** 5 mm grid, Polyester 98%, Carbon 2% • **Color:** Sky Blue, White

• ANSI/ESD S20.20-2021 (ANSI/ESD STM2.1) • EN 61340-5-1 • Typical value: $1.0 \times 10^9\text{ohm}$ (Groundable Static Control Garment System)

ESD Jacket and Pants

M40F-004 (Set)



(cm)

Descriptions	S	M	L	XL	2XL	3XL	4XL
Chest (±1.5)	52	55	57.5	60.5	62.5	66.5	68
L (Back) (±1)	62	64.5	67	70	72	74	78
L (Sleeves) (±1)	52.5	54.5	56	58.5	60	62	64
W (Shoulder) (±0.1)	42.5	45	47.5	50	51.5	52.5	53.5
L (Pants) (±1.5)	96.5	98.5	102	103.5	105	108	111.5
Waist (Pants) (±1)	44.5	46.5	48.5	50	52	54	56
Hips	50.5	53	55	56	58.5	60	62
Thighs	34	36	36.5	37.5	39	39.5	41

ESD Safari



(cm)

Descriptions	S	M	L	XL	2XL	3XL	4XL
Chest (±1.5)	52	55	57.5	60.5	62.5	65.5	68
L (Back) (±1)	68.5	70	72	75	77.5	80.5	82.5
L (Sleeves) (±1)	52.5	54.5	56	58.5	60	62	64
W (Shoulder) (±1)	42.5	45	47.5	50	51.5	52.5	53.5

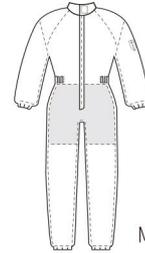
ESD Gown



(cm)

Descriptions	S	M	L	XL	2XL	3XL	4XL
Chest (±1.5)	52	55	57.5	60.5	62.5	65.5	68
L (Back) (±1)	96.5	98	101.5	104.5	108.5	112.5	115
L (Sleeves) (±1)	52.5	54.5	56	58.5	60	62	64
W (Shoulder) (±1)	42.5	45	47.5	50	51.5	52.5	53.5

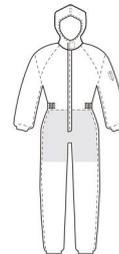
Cleanroom Coverall



(cm)

Descriptions	S	M	L	XL	2XL	3XL	4XL
Chest (±1.5)	53	55.5	58.5	61	63.5	66	68.5
L (Back) (±1.5)	156	160	162.5	166.5	169	176	179
L (Sleeves) (±1.5)	80	83	84.5	87.5	89.5	91	92

Cleanroom Coverall with Hood



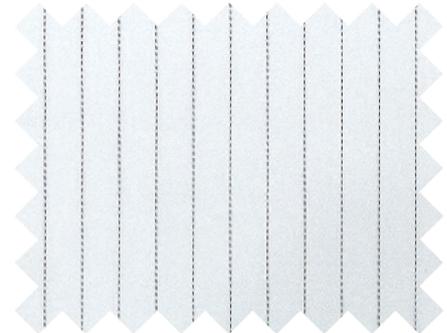
(cm)

Descriptions	S	M	L	XL	2XL	3XL	4XL
Chest (±1.5)	53	55.5	58.5	61	63.5	66	68.5
L (Back) (±1.5)	156	160	162.5	166.5	169	176	179
L (Sleeves) (±1.5)	80	83	84.5	87.5	89.5	91	92



ESD Chemical Resistant Fabric

ESD Chemical Resistant Fabric (ECRF) is ideal for the environment where chemical-related products are used and handled. There is special PU coating on the fabric and the thin and chemical-proof film is laminated on the top of the coated fabric to achieve maximum chemical resistant properties. The **ECRF** can effectively protect workers from potential risks associated with exposure to dangerous and harmful chemicals and provides a particle and ESD-safe working environment. We can create a range of finished products with **ECRF**, such as ESD Arm Sleeves, ESD Aprons, ESD Open-back Coats and more.

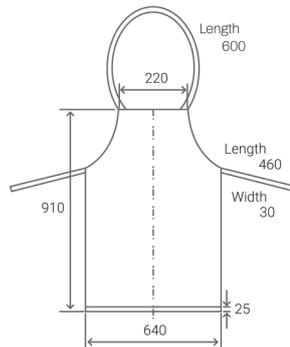


M07F-004 (MDF-245)

Technical Specifications

Test	Warp	Weft	Unit / Result	Test Method
Yarn	PFY 75D	PFY 100D	Denier	
ECF	F-901 (BASF)		-	
Density	192	92	Threads/Inch	
Weave	1/2 twill (5 mm stripe)			
Dimension	58" / 60"		inch × yd	
Weight	166		GR/SQMT	
Thickness	0.18 ± 0.01		mm	
Friction Static Voltage (Back)	< 100		Volts	JIS-L1094B
Surface Resistance	10e10 ~ 10e11 (front)		Ω	ASTM-D257
	10e6 ~ 10e7 (back)			
Index of Chemical Penetration	1. Sulfuric Acid (50%)	0%	Class 6	ISO 6530-2005 Class 6 (≤ 1%) Class 5 (≤ 5%) Class 4 (≤ 10%) Class 3 (≤ 20%) Class 2 (≤ 50%) Class 1 (> 50%)
	2. Hydrochloric acid (36%)	0%	Class 6	
	3. Nitric Acid (50%)	0%	Class 6	
	4. Formic Acid (50%)	0%	Class 6	
	5. Hydrofluoric Acid (40%)	0%	Class 6	
	6. Sodium Hydroxide (40%)	0%	Class 6	
	7. Hydrogen Peroxide (30%)	0%	Class 6	
	8. Toluene (99.5%)	0%	Class 6	
	9. Acetone (99.5%)	0%	Class 6	
	10. Methanol (99.5%)	0%	Class 6	
	11. Hexane (95%)	0%	Class 6	
Constructions				

ESD Chemical Resistant Apron



Item Code M25F-001
 Fabric MDF-245
 SR 10e10 ~ 10e11 ohm (front), 10e6 ~ 10e7 ohm (back)
 Size 640 mm(W) × 910 mm(L)

ESD Chemical Open-back Coat



Item Code M26F-001
 Fabric MDF-245
 SR 10e10 ~ 10e11 ohm (front)
 10e6 ~ 10e7 ohm (back) (cm)

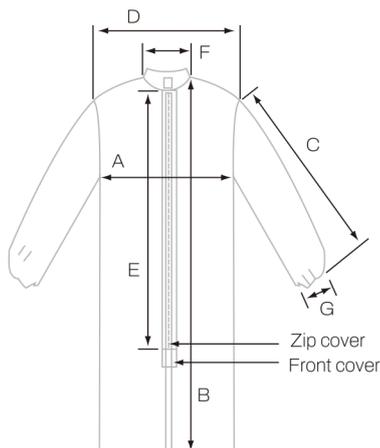
Size	Chest	Length	Sleeves	Shoulder
S	57	107	61	42.5
M	60	110	62	45
L	62.5	113	63	47.5
XL	65	116	64	50
2XL	67.5	119	65	52.5
3XL	70	122	66	55

ESD Chemical Resistant Sleeves



Item Code M24F-001
 Fabric MDF-245
 SR 10e10 ~ 10e11 ohm (front), 10e6 ~ 10e7 ohm (back)
 Size 200 mm(W) × 400 mm(L)

ESD Chemical Resistant Gown



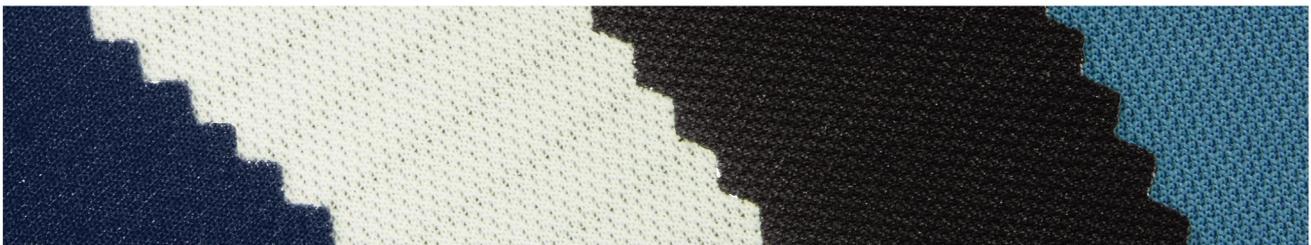
Item Code M30F-001
 Fabric MDF-245
 SR 10e10 ~ 10e11 ohm (front)
 10e6 ~ 10e7 ohm (back) (cm)

Size	A	B	C	D	E	F	G
S	51.5	101	57.5	39.5	53	50	19
M	54	104	58	42	53	50	19
L	56.5	107	59.5	44.5	53	50	19
XL	59	110	61.5	47	53	50	19
2XL	61.5	113	62.5	49.5	53	50	20
3XL	64	116	62.5	52	53	52	20

ESD Coolon Fabric

Experience Innovative Cool & Enjoy More Comfortable Life!

COOLON is a powerful performance fiber with excellent moisture dispersion creating a natural and refreshing feel. With the Cool Fiber Technology of Kolon, we have developed our own ESD Coolon Fabric with a Memory in 10 mm conductive filament stripe (MDF-320) and a Pique in 7 mm conductive filament stripe (MDF-250). The Interlocking Design, also known as Double Knitted Pattern, which is the umbrella term of Memory, Pique, etc., has different texture on both sides. The inside surface to be touched on the skin feels soft, like cotton while the surface facing outside has rough and wider in cross-section so that sweat from your skin will be evaporated and dried quickly by exposing wider surface of the fabric to the air. Our ESD Coolon Fabric is one of the best choices for making Casual wear, Shirts and Sportswear for the people who handle any ESD sensitive materials or devices in EPA (ESD Protected Area).



· Excellent ESD properties



· Good resistance to fading, shrinking and wrinkling.



· Improved breathability



· Quick moisture absorption



· Fast drying



· Dry and soft touch



· No particle generation



· Unique brightness



· Excellent durability



· Easy to care and handling

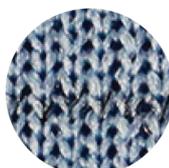


· All-weather fabric

Outer surface

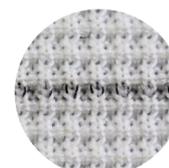
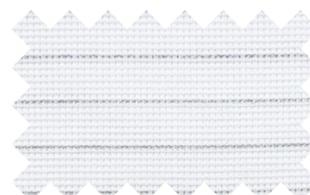


Inner surface

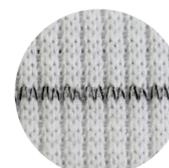


M05F-001 (MDF-250)

Outer surface



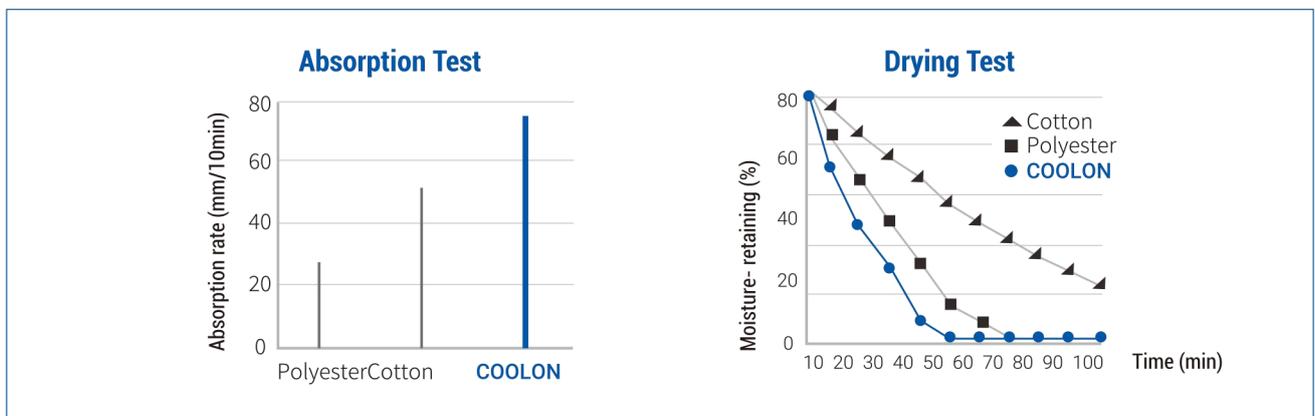
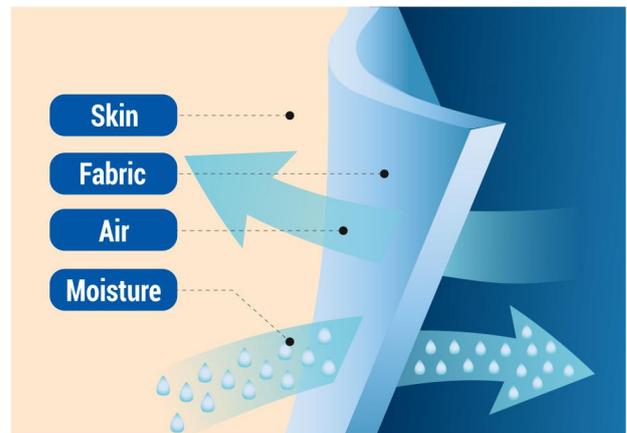
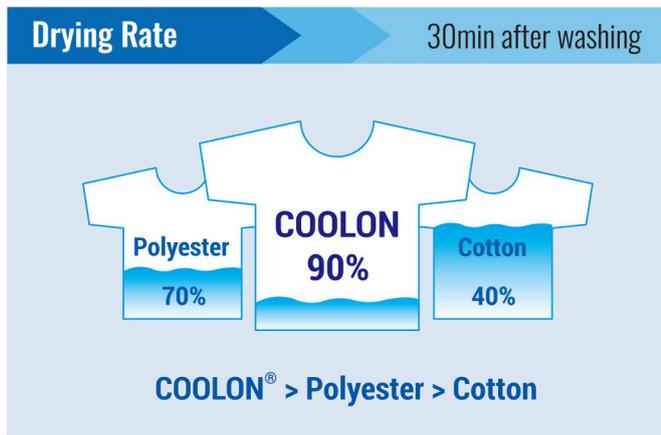
Inner surface



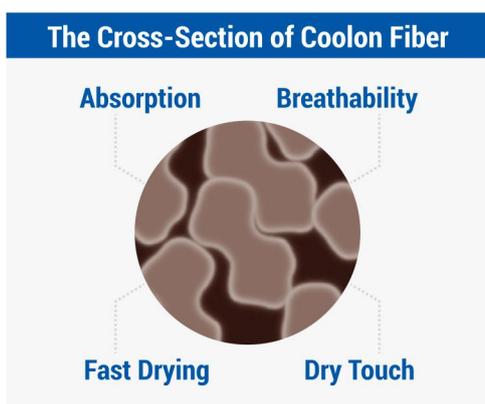
M05F-002 (MDF-320)

What is COOLON® ?

COOLON is the brand name of functional moisture-wicking fiber developed by Kolon, which is one of the leading textile companies specialized in developing various synthetic fiber in Korea. It is specially-engineered polyester fiber to improve “breathability” compared to natural fiber like cotton.



The Coolon fiber is not round, but slightly oblong in cross-section, like a peanut hull. It means that the surface of Coolon fiber in cross-section is wider than that of other fiber. This unique shape of the fiber creates capillary action that absorbs moisture through the core and out to the wider area on the surface of the fiber that increases evaporation.



Item Code	M05F-001	M05F-002
Model	MDF-250	MDF-320
Color		
Dimension	70"/72"	58"/60"
Weight	148 g/sqmt	205 g/sqmt
Compositions	Polyester (Coolon) 98%, Conductive Yarn 2%	
Surface Resistance	10e6 ~ 10e7 ohm	10e5 ~ 10e6 ohm

ESD Coolon Shirt

ESD Coolon Shirt is made of 100% polyester with embedded ECF (Electro-Conductive Fiber) in stripe pattern. This special fabric, made in Korea, is under well controlled QC, and generates significantly low lint compared to other normal fabric. It is comfortable thanks to quick sweat evaporation and good ventilation, and it has extra durability, light weight, etc. The touch is like DuPont Coolmax fabric, which is the material of popular sports wear. ESD Coolon shirt is suitable for the people working in hot and high humidity environment, and is also a good choice for the workers handling ESD sensitive products by virtue of its good ESD properties.



Item Code M06F-003-WH
Model MDF-250CL



Item Code M06F-003-RB
Model MDF-250CL

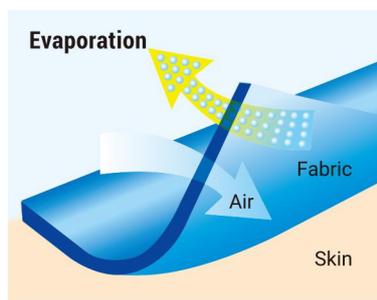
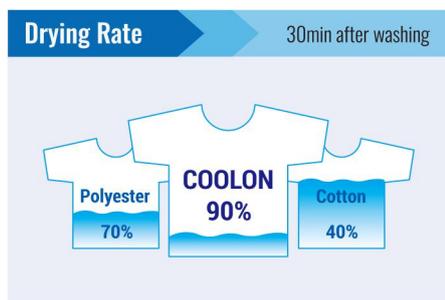


Item Code M06F-004-NA
Model MDF-250RL

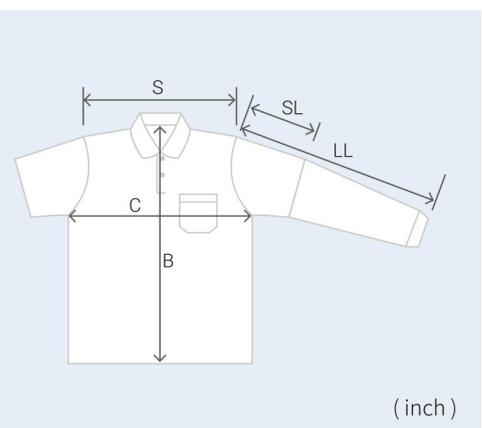


Item Code M06F-002-BK
Model MDF-250RS

Model	Type	Fabric	Color	Composition	Weight	Option
MDF-250CS	Shirt with collar and short sleeves	M05F-001 (MDF-250)	White	98% of Polyester Coolon fabric and 2% of ECF yarn	148 g / sqmt	· ESD symbol · Breast pocket
MDF-250RS	Shirt with round neck and short sleeves		Royal Blue			
MDF-250CL	Shirt with collar and long sleeves		Navy			
MDF-250RL	Shirt with round neck and long sleeves		Black			



Mark	Chest (C)	Back (B)	Shoulder(S)	Sleeve	
				Short (SL)	Long (LL)
XS	19.5	27	18.5	8	23.5
S	20.5	28	19	8.5	24
M	21.5	28.5	19.5	8.5	24
L	22.5	29	20	9	24.5
XL	23.5	30	21	9.5	25
2XL	24.5	31	21.5	10	25.5
3XL	25.5	32	22.5	10.5	26
4XL	26.5	33	23.5	10.5	26.5
5XL	27.5	33.8	24.5	11	26.5
6XL	28.5	34.4	25.5	11	27



· ANSI/ESD S20.20-2021 (ANSI/ESD STM2.1) · EN 61340-5-1 · Typical value: <math>< 1.0 \times 10^{11}</math>ohm (Static Control Garment)

*Allowance: ±5%

EPA Coolon Shirt



Polo Shirt
M32F-007



Round Shirt
M32F-003



V-neck Shirt
M32F-002

New Design			
Women's			
	Polo Shirt	Round Shirt	V-neck Shirt
	Men's		
Polo Shirt		Round Shirt	V-neck Shirt

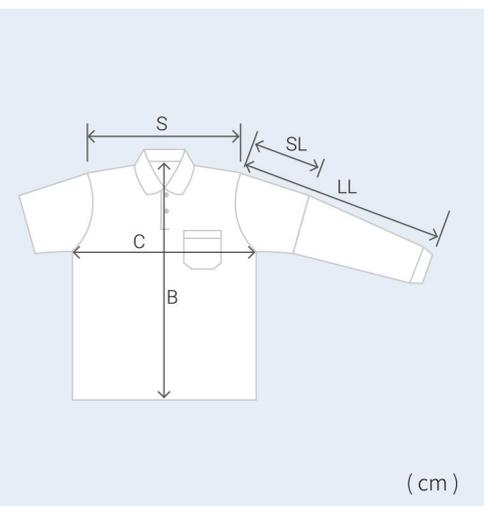
Descriptions

- Designed for using in EPA area with excellent ESD properties.
- No static, quickly disperse the sweat.
- Soft and dry touch like cotton
- Tailored in UNISEX Design.
- Colored conductive sewing thread
- Color: White, Royal Blue, Black
- Fabric: M05F-002 (MDF-320)

Features

- ANSI/ESD S20.20-2021 (ANSI/ESD STM2.1)
- Groundable Static Control Garment System (EN 61340-5-1)
- Typical value: <math>< 1.0 \times 10^9 \text{ ohm}</math>

Item	Size	Chest (C)	Back (B)	Shoulder (S)	Sleeve		
					Short (SL)	Long (LL)	
						Polo	Round V-neck
Women's	3XS	46.5	60.7	39.3	20.5	60.1	
	2XS	49.0	62.0	40.5	21.5	61.1	
	XS	51.5	63.5	41.8	22.5	62.1	
	S	54.0	65.0	43.0	23.5	63.1	
	M	56.5	66.5	44.2	24.5	64.1	
Men's	S	53.0	66.0	48.0	21.7	67.1	62.6
	M	55.5	68.0	49.2	21.7	67.6	62.6
	L	58.0	70.0	50.4	23.0	69.3	63.8
	XL	60.5	72.0	51.6	24.2	71.2	65.2
	2XL	63.0	74.0	52.8	25.5	73.0	66.5
	3XL	65.5	76.0	54.0	26.7	74.8	67.8



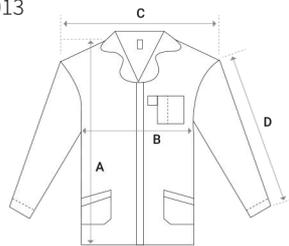
(cm)

*Allowance: ±5%

ESD Light Gown



M04F-013



Descriptions

- Designed for using in EPA with excellent ESD properties.
- Light weight: 79 g/sqmt
- ESD logo and a pen slot on the pocket
- Grounding studs (Left & Right)
- Cuff snap buttons (Front & Right)
- Fabric: MDF-153U (90% Polyester & 10% Carbon)
- Made In Korea

Features

- ANSI/ESD S20.20-2021 (ANSI/ESD STM2.1)
- EN 61340-5-1
Groundable Static Control Garment System
- Typical value: $< 1.0 \times 10^9$ ohm

(cm)

Size	XS	S	M	L	XL	2XL	3XL
A	72	74	76	78	80	82	84
B	96	104	114	124	134	144	154
C	40	44	49	54	59	64	69
D	58.5	61	63.5	66	68.5	71	73.5

*Allowance: $\pm 5\%$

ESD Lab Coat



M04F-002

Descriptions

- Hip length, shirt collar
- 3patch pocket & color combination
- Exposed Stud front
- Cuff snap button
- Fabric : MDF-150 (96% Polyester & 4% Carbon)
- Conductive sewing thread was used
- Made in Korea

Features

- ANSI/ESD S20.20-2021 (ANSI/ESD STM2.1)
- EN 61340-5-1
Groundable Static Control Garment System
- Typical value: $< 1.0 \times 10^9$ ohm

(cm)

Size	Chest	Sleeve	Center Back	Shoulder
XXS	101	46	66	47
XS	107	48	69	48
S	112	51	71	51
M	119	55	76	52
L	123	57	77	55
XL	131	58	80	58
2XL	135	60	83	61
3XL	140	63	86	63

*Allowance: $\pm 5\%$

MEC Fabric Collection

No.	Model	ECF	Weave	Width (inch)	Weight (g/sqmt.)
▼ Lint Free Static Control Fabric					
1-1	MDF-507	F-901 (BASF)	1/2 twill (3.5 mm stripe)	58"/60"	96
1-2	MDF-170	F-901 (BASF)	1/2 twill (5 mm stripe)	58"/60"	107
1-3	MDF-235	F-901 (BASF)	1/2 twill (5 mm stripe)	58"/60"	129
1-4	MDF-245	F-901 (BASF)	1/2 twill (5 mm stripe)	58"/60"	166
1-5	MDF-171	F-901 (BASF)	1/2 twill (5 mm stripe)	58"/60"	107
1-6	MDF-503	F-901 (BASF)	1/2 twill (5 mm stripe)	58"/60"	79
1-7	MDF-157	F-901 (BASF)	1/2 twill (5 mm stripe)	58"/60"	175
1-8	MDF-501	F-901 (BASF)	2/3 twill (5 mm stripe)	58"/60"	107
1-9	MDF-195	F-901 (BASF)	Taffeta (20 mm stripe)	58"/60"	83
1-10	MDF-167	F-901 (BASF)	1/2 twill (2.5 mm stripe)	58"/60"	109
1-11	MDF-505	F-901 (BASF)	1/2 twill (2.5 mm grid)	58"/60"	109
1-12	MDF-160	F-901 (BASF)	1/2 twill (5 mm stripe)	58"/60"	107
1-13	MDF-161	F-901 (BASF)	1/2 twill (5 mm grid)	58"/60"	107
1-14	MDF-512	F-901 (BASF)	Taffeta (5 mm grid)	58"/60"	104
1-15	MDF-162	F-901 (BASF)	2/3 twill (5 mm grid)	58"/60"	107
1-16	MDF-502	F-901 (BASF)	2/3 twill (5 mm grid)	58"/60"	107
1-17	MDF-166	F-901 (BASF)	2/2 twill (5 mm grid)	58"/60"	120
1-18	MDF-169	F-901 (BASF)	2/2 twill (5 mm grid)	58"/60"	107
1-19	MDF-145	F-901 (BASF)	2/3 twill (7 mm grid)	58"/60"	109
1-20	MDF-506	F-901 (BASF)	2/3 twill (3x10 mm grid)	58"/60"	107
1-21	MDF-509	F-901 (BASF)	2/3 twill (5x3.5 mm grid)	58"/60"	107
1-22	MDF-140	F-901 (BASF)	1/2 twill (10 mm grid)	58"/60"	116
1-23	MDF-513	F-901 (BASF)	1/2 twill (10 mm grid)	58"/60"	109
1-24	MDF-156C	F-901 (BASF)	Taffeta (4 mm grid)	58"/60"	170
1-25	MDF-156CU	F-901 (BASF)	Taffeta (3.5 mm grid)	58"/60"	127
1-26	MDF-514	F-901 (BASF)	Taffeta (5 mm check)	58"/60"	118
1-27	MDF-515	F-901 (BASF)	Pique (4 mm stripe)	55"	236
▼ Conductive Fabric					
2-1	MDF-150	F-901 (BASF)	4bar net (diamond)	58"/60"	165
2-2	MDF-153	F-901 (BASF)	4bar net (diamond)	58"/60"	79
2-3	MDF-152	F-901 (BASF)	4bar net (diamond)	58"/60"	100
2-4	MDF-155	F-901 (BASF)	4bar net (diamond)	58"/60"	155
2-5	MDF-250	F-901 (BASF)	7 mm stripe	70"/72"	148
2-6	MDF-320	F-901 (BASF)	10 mm stripe		205
2-7	MDF-270	F-901 (BASF)	Pique	60"	172
2-8	MDF-270S	F-901 (BASF)	Pique	68"	323
2(new)	MDF-283	F-902 F044	4bar net (diamond)	60"/61"	85
2(new)	MDF-284	F-902 F044	4bar net (diamond)	60"/61"	140
2(new)	MDF-285	F-902 F044	4bar net (diamond)	60"/61"	140
2(new)	MDF-286	F-902 F044	4bar net (herringbone)	60"/61"	90
▼ Sterilization Compatible Cleanroom Fabric					
3-1	MDF-221	B-31 (Kanebo)	Taffeta (5 mm stripe)	58"/60"	92
3-2	MDF-220	B-31 (Kanebo)	1/2 twill (5 mm stripe)	58"/60"	93

No.	Model	ECF	Weave	Width (inch)	Weight (g/sqmt.)
3-3	MDF-301	B-31 (Kanebo)	Taffeta (5 mm stripe)	58"/60"	95
3-4	MDF-110	B-31 (Kanebo)	1/2 twill (5 mm stripe)	58"/60"	112
3-5	MDF-302	B-31 (Kanebo)	2/2 twill (5 mm stripe)	58"/60"	102
3-6	MDF-125	B-31 (Kanebo)	2/3 twill (5 mm stripe)	58"/60"	118
3-7	MDF-303	B-31 (Kanebo)	Taffeta (8 mm stripe)	58"/60"	115
3-8	MDF-304	B-31 (Kanebo)	Taffeta (12 mm stripe)	58"/60"	112
3-9	MDF-190	B-31 (Kanebo)	1/2 twill (20 mm stripe)	58"/60"	107
3-10	MDF-306	F-901 (BASF)	Taffeta (2.5 mm check)	58"/60"	97
3-11	MDF-142	B-31 (Kanebo)	1/2 twill (4 mm check)	58"/60"	169
3-12	MDF-307	B-31 (Kanebo)	2/3 twill (4 mm check)	58"/60"	115
3-13	MDF-211	B-31 (Kanebo)	Taffeta (5 mm check)	58"/60"	93
3-14	MDF-210	B-31 (Kanebo)	Taffeta (5 mm check)	58"/60"	96
3-15	MDF-308	B-31 (Kanebo)	Taffeta (5 mm check)	58"/60"	100
3-16	MDF-309	B-31 (Kanebo)	Taffeta (5 mm check)	58"/60"	90
3-17	MDF-310	B-31 (Kanebo)	Taffeta (5 mm check)	58"/60"	71
3-18	MDF-311	B-31 (Kanebo)	Taffeta (5 mm check)	58"/60"	133
3-19	MDF-312	B-31 (Kanebo)	Taffeta (5 mm check)	58"/60"	104
3-20	MDF-199UT	B-31 (Kanebo)	Taffeta (5 mm stripe)	58"/60"	95
3-21	MDF-118	B-31 (Kanebo)	1/2 twill (5 mm check)	58"/60"	113
3-22	MDF-165	B-31 (Kanebo)	1/2 twill (5 mm check)	58"/60"	119
3-23	MDF-313	B-31 (Kanebo)	1/2 twill (5 mm check)	58"/60"	105
3-24	MDF-314	B-31 (Kanebo)	2/1 twill (5 mm check)	58"/60"	102
3-25	MDF-315	B-31 (Kanebo)	2/2 twill (5 mm check)	58"/60"	108
3-26	MDF-316	B-31 (Kanebo)	2/2 twill (5 mm stripe)	58"/60"	148
3-27	MDF-127	B-31 (Kanebo)	2/3 twill (5 mm check)	58"/60"	119
3-28	MDF-130	B-31 (Kanebo)	2/3 twill (5 mm check)	58"/60"	107
3-29	MDF-148	B-31 (Kanebo)	2/3 twill (5 mm check)	58"/60"	115
3-30	MDF-317	B-31 (Kanebo)	Taffeta (6 mm check)	58"/60"	140
3-31	MDF-164	B-31 (Kanebo)	1/2 twill (7 mm check)	58"/60"	120
3-32	MDF-318	B-31 (Kanebo)	Rib (7 mm check)	58"/60"	110
3-33	MDF-146	B-31 (Kanebo)	1/2 twill (8 mm check)	58"/60"	151
3-34	MDF-149	B-31 (Kanebo)	1/2 twill (8 mm check)	58"/60"	182
3-35	MDF-305	B-31 (Kanebo)	2/2 twill (Tartan check)	58"/60"	160
3-36	MDF-319	B-31 (Kanebo)	2/2 twill (Variative)	58"/60"	130
3(new)	MDF-336	B-31 (Kanebo)	Taffeta (5mm check)	58"/60"	85
3(new)	MDF-307R	B-31 (Kanebo)	2/3 twill (4mm check)	58"/60"	115
3(new)	MDF-199UTR	B-31 (Kanebo)	Taffeta (5mm weft stripe)	58"/60"	95
▼ Non-ESD Fabric					
5-1	MDF-216	Non	Herringbone twill	58"/60"	140
5-2	MDF-215	Non	Taffeta	58"/60"	89
5-3	MDF-217	Non	1/2 twill	58"/60"	151
5-4	MDF-199Micro	Non	Taffeta	58"/60"	95
5-5	MDF-218	Non	Taffeta	58"/60"	92
5-6	MDF-219	Non	Taffeta	58"/60"	145

Garment Accessories

Lint-free Sewing Thread



M13F-001



M13F-004



M13F-006

Product	Non-ESD polyester sewing thread	Conductive stainless steel yarn thread	Conductive carbon yarn thread
Item Code	M13F-001	M13F-004	M13F-006
Composition	Polyester 100%	Polyester 93%, Stainless 7%	Polyester 93%, Carbon 7%
Surface Resistance	-	10e3 ohm	10e6 ohm
Thickness	300 denier (2 ply)	466 denier (3 ply)	322 denier (3 ply)
Color	White, Sky Blue, Navy Blue and Olive Green	Grey	Grey
Packing	245 g/cone, 7350 m/cone 10 cones/box, 10 boxes/carton	245 g/cone, 4700 m/cone 10 cones/box, 10 boxes/carton	143 g/cone, 4004 m/cone 10 cones/box, 10 boxes/carton

Conductive Lint-free Ribbon



M14F-001

M14F-002

Item Code	M14F-001	M14F-002
Surface Resistance	10e6 ohm	
Color	Grey	
Width	13 mm	3.2 mm
Composition	Polyester yarn 93%, Carbon yarn 7%	
Packing	100 yards/bundle, 10 bundles/box	500 yards/bobbin, 10 bobbins/box

Conductive Spiral Cuff Fabric



Item Code	M15F-009
Yarn (Denier)	DTY 150D
ECF (BASF)	Silver Plated Yarn (39/10 dtex)
Density (Threads/Inch)	22W × 29C
Weave	1 × 1 RIB
Dimension (cm×yd)	6 pcs (3 pairs)/yd × 100 yds
Weight (g/liner yd)	54
Surface Resistance (ohm)	10e3 ~ 10e4

Conductive Knitted Cuff Fabric



M15F-001 / M15F-012 / M15F-017

M15F-018

Non-ESD Knitted Cuff Fabric



M17F-004

Item Code	M15F-001	M15F-012	M15F-017	M15F-018	M17F-004-NA	M17F-004-WH
Yarn (Denier)	DTY 300D		DTY 150D		DTY 300D	
ECF	Carbon		Carbon	Copper	-	
Weave	1×1 RIB		1×1 RIB		1×1 RIB	
Dimension (cm×yd)	8 Tube × 100	10 Tube × 100	8 Tube × 100	8.5 Tube × 100	8 Tube × 100	
Weight (g/liner yd)	54	67.5	70	40	55	
Surface Resistance (ohm)	10e6 ~ 10e7		10e5 ~ 10e6	10e3 ~ 10e5	-	
Color	Grey		Grey	Various Color	White, Navy	

Grosgrain Polyester Tape



Item Code	M31F-004
Size	15 mm(W) x 200 yards/roll
Applications	hang loop, snap button reinforcement

Non-ESD Polyester Fabric



Item Code	M17F-008 (MDF-219)
Applications	barcode patch

Cleanroom Socks



Item Code	L/W	R/D	Size
M28-F-001	W	R	S, M, L, XL
M28-F-020	L	R	S, M, L, XL
M28-F-031	W	R	S, M, L, XL
M28-F-032	L	R	S, M, L, XL
M28-F-003	W	R	F
M28-F-034	L	R	F
M28-F-033	W	D	F
M28-F-005	L	D	F
M28-F-022	W	D	F
M28-F-023	L	D	F

L - Laundered
W - Without Laundry
R - Reusable
D - Disposable

According to the new EU GMP (Good Manufacturing Practices) Annex 1, outdoor clothing including socks (other than personal underwear) should not be brought into changing rooms leading directly to grade B and C areas. Single or two- piece facility trouser suits, covering the full length of the arms and the legs, and facility socks covering the feet, should be worn before entry to change rooms for grade B and C. Facility suits and socks should not present a risk of contamination to the gowning area or processes. (EU GMP Annex 1, Section 7.14, 2022 version- Aug. 25th, 2022)

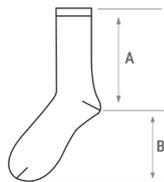
Reusable Socks



Item Code	M28F-031-color-size	M28F-032-color-size (L)
Material	Polyester 99%, Spandex 1%	
Color	White (WH), other colors are available on request	
Packing	1 pair/individual bag, 10 pairs/bag, 20 bags/carton	
Size	S, M, L, XL	

*(L) – Cleanroom Laundered

Size (cm)	S	M	L	XL
Cuff Color	Green	Orange	Blue	Red
A	23	24	25	25
B	25	26	27	28

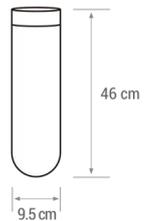


*Allowance: ±10%

Reusable Tube Socks with no heel



Item Code	M28F-003-color	M28F-034-color (L)
Material	Polyester 99%, Spandex 1%	
Color	White (WH), Pink (PK), etc.	
Packing	1 pair/bag	
Size	9.5 cm(W) × 46 cm(L) with 5.3 cm cuff	



*(L) – Cleanroom Laundered

*Allowance: ±10%

Disposable Socks

Item Code	M28F-033-WH M28F-005-WH (L)	M28F-022-WH M28F-023-WH (L)
Material	Polyester + Nylon 99%, Spandex 1%	Polyester 95%, Spandex 5%
Color	White	
Packing	1 pair/bag, 20 pairs/double bag, 20 double bags/ctn	
Size	9 cm(W) × 30 cm(L)	

*(L) – Cleanroom Laundered

*Allowance: ±10%



Features

- Cleanroom compatible
- Autoclavable
- EU GMP Annex 1, Section 7.14
- Unisex
- One-size-fits-all (M28F-005, 033, 022, 023, 003, 034)
- Reusable (M28F-031, 032, 003, 034)
- Tube socks with no heel (M28F-003, 034, 005, 033, 022, 023)
- Single use only (M28F-005, 033, 022, 023)

Cleanroom Boots & Soles



Conductive Overboots

Out Sole	Conductive PVC outsole
Leggings	Lint free ESD fabric leggings + Nylon strap and buckle
Volume Resistance	10e4 ~ 10e6 ohm
Size	XS, S, M, L, XL
Features	<ul style="list-style-type: none"> • Cost-effective • Soft and flexible • Reliable steady resistance (conductive) • No marking on the floor



Item Code M10A-001
Model BCO-360

Static Dissipative Overboots

Out Sole	Static dissipative fishbone designed hypalon sole (Chlorosulfonated Polyethylene (CSM) + Natural rubber + Conductive Compound)
Leggings	Lint-free cleanroom fabric + Polyester strap with snap buttons and buckle
Volume Resistance	10e7 ~ 10e9 ohm
Size	XS, S, S/M, M, M/L, L, L/XL, XL, 2XL, 3XL
Features	<ul style="list-style-type: none"> • Autoclavable • Sterilization compatible • Soft and flexible • Gamma radiation compatible • Slip resistant • Oil & chemical resistant • High washing temperature



Item Code M04A-002
Model NHB-370

Accessories for Overboots

Polyester Strap for Buckles
M16A-001

Size: 20 mm x 100 m/roll

Autoclavable Buckles (2 pcs)
M16A-004

20 mm(W), white

Reinforced ESD Fabric
M03F-006

Size: 60" x 100 m/roll

Webbing for Overboots
M16A-002

Size: 40 mm x 100 m/roll

Static Dissipative Boots

Out Sole	PVC outsole	Inner Sole	ESD insole
Upper	PVC Synthetic Leather	Volume Resistance	10e6 ~ 10e8 ohm
Leggings	Lint free ESD fabric leggings		
Size	220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 290, 300 mm		
Features	<ul style="list-style-type: none"> • Cost - effective • Anti-slip • Abrasion resistant • Low particles generation • Durable and long-lasting • Good wearability • Cleanroom applicable 		



Item Code M02A-001
Model BSB-330



Item Code M02A-002
Model BSB-333

Out Sole	PU outsole	Inner Sole	T/C fabric insole
Upper	PU Synthetic Leather	Volume Resistance	10e7 ~ 10e9 ohm
Leggings	Lint free ESD fabric leggings		
Size	225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 290, 300, 310, 320 mm		
Features	<ul style="list-style-type: none"> • Cost - effective design • Light weight • Durable and long-lasting • Cleanroom applicable 		



Item Code M02A-003
Model BUB-381S



Item Code M02A-004
Model BUB-382



Item Code M02A-005
Model BUB-383

Out Sole	PU outsole
Inner Sole	ESD insole
Upper	1.4 mm (T) PVC Synthetic Leather 0.5 mm (T) PVC Synthetic Leather Tape
Leggings	Static Dissipative Lint Free Fabric
Others	Sewing Thread made of Filament Yarn, Zipper, Elastic Band
Volume Resistance	10e6 ~ 10e8 ohm
Size	225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 290, 300 mm



Item Code M02A-025
Model BUB-391

Static Dissipative Safety Boots

Out Sole	PU outsole	Inner Sole	T/C insole
Upper	PU Synthetic Leather	Leggings	Lint free ESD fabric leggings
Toe cap	Steel toe cap	Volume Resistance	10e7 ~ 10e9 ohm
Size	225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 290, 300 mm		
Features	<ul style="list-style-type: none"> • Recyclable PU outsole • Durable and long-lasting • Anti-slip • Oil resistant • Abrasion resistant • Shock absorption • Low particle generation • Cleanroom applicable 		



Item Code M06A-001
Model BTU-530



Item Code M06A-002
Model BTU-533



Steel toe cap

Out Sole	PU outsole
Inner Sole	Small diaper grid fabric + Conductive Thread
Upper	Wet PU (Polyurethane) + Non-woven + Merry Mesh Lining
Leggings	Lint free ESD fabric leggings
Toe cap	Steel toe cap
Volume Resistance	10e6 ~ 10e8 ohm
Size	230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 290, 300 mm



Item Code M06A-009

Conductive Boots

Out Sole	Conductive PVC outsole
Inner Sole	ESD insole
Upper	PVC Synthetic Leather
Leggings	Lint free ESD fabric leggings
Volume Resistance	10e4 ~ 10e6 ohm
Size	220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 290, 300 mm
Features	<ul style="list-style-type: none"> • Reliable steady resistance (conductive) • No marking on the floor • Cleanroom applicable



Item Code M08A-001
Model BCB-340

Static Dissipative Hypalon Soles

RTG (ohm)	10e7 ~ 10e9
Material	<ul style="list-style-type: none"> • Chlorosulfonated Polyethylene (CSM) • Natural Rubber
Features	<ul style="list-style-type: none"> • Cleanroom Applicable • Sterilization Compatible • Autoclavable • Gamma Radiation Compatible • Slip Resistant



Item Code M11A-002
Model PHS-110F

Size	XS	S	S/M	M	M/L	L	L/XL	XL	2XL	3XL
Length × Width (mm)	245 × 100	265 × 108	275 × 110	290 × 118	302.5 × 123	315 × 128	327.5 × 133	340 × 138	365 × 148	375 × 150
Weight (g/pr) ± 5%	220	255	270	320	345	365	380	410	465	530

RTG (ohm)	10e7 ~ 10e9
Materials	<ul style="list-style-type: none"> • Chlorosulfonated Polyethylene (CSM) • Natural Rubber
Features	<ul style="list-style-type: none"> • Cleanroom Applicable • Sterilization Compatible • Autoclavable • Gamma Radiation Compatible • Slip Resistant



Item Code M11A-003
Model PHS-120P

Size	XS	S	S/M	M	M/L	L	L/XL	XL	2XL	3XL
Length × Width (mm)	-	265 × 108	-	290 × 118	-	315 × 128	-	340 × 138	365 × 148	375 × 150
Weight (g/pr) ± 5%	-	255	-	320	-	365	-	410	465	530

Static Dissipative Flat Soles

RTG (ohm)	10e6 ~ 10e7
Materials	<ul style="list-style-type: none"> • Synthetic Rubber (NBR-35L) • Natural Rubber
Features	<ul style="list-style-type: none"> • Cleanroom Applicable • Autoclavable • Soft & Flexible • Sterilization Compatible • Gamma Radiation Compatible • Light Weight • Slip Resistant



Item Code M11A-004
Model PRS-130E

Size	XS	S	S/M	M	M/L	L	L/XL	XL	2XL	3XL
Length × Width (mm)	278 × 120	298 × 117	-	317 × 125	-	330 × 132	-	348 × 135	357 × 140	370 × 147
Weight (g/pr) ± 5%	148	156	-	180	-	194	-	236	256	260

Conductive NBR Soles



VIDEO

RTG (ohm)	10e6 ~ 10e7
Materials	<ul style="list-style-type: none"> • Synthetic Rubber (NBR-35L) • Natural Rubber
Features	<ul style="list-style-type: none"> • Cleanroom Applicable • Sterilization Compatible • Autoclavable • Gamma Radiation Compatible • Silicone & Phthalate Free • Slip Resistant



Item Code M11A-006
Model PRS-140C

Size	XS	S	S/M	M	M/L	L	L/XL	XL	2XL	3XL
Length × Width (mm)	245 × 100	265 × 108	275 × 110	290 × 118	302.5 × 123	315 × 128	327.5 × 133	340 × 138	365 × 148	375 × 150
Weight (g/pr) ± 5%	220	255	270	320	345	365	380	410	465	530

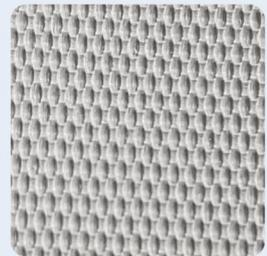
CSM Rubber Sheet for Soles

The CSM (Chlorosulfonated polyethylene) rubber sheet reinforced with high tenacity polyester fabric is a kind of a very particular material for the bottom soles of cleanroom overshoes or the webbing material on the overshoes. Coming in a sheet form, it can be applied to the various shapes and the sizes of the soles according to each customer's need, unlike many existing ready-made soles.



Features

- Excellent chemical resistance
- Anti-slip
- Bendable at a low temperature (-45°F)
- Strong resistance to abrasion
- Autoclavable (withstand up to 120°C)
- Gamma-ray stable at min.737 kGy / max.760.8 kGy
- Antistatic finish (10e10 ~ 10e11 ohm)



Item Code	M20F-001	Unit
Color	Light Grey	
Width (trimmed)	56	inch
Total Weight	1,010.8 (23.8) ±5%	g/m ² (oz/yd ²)
Thickness	0.87 ± 0.10	mm
Bursting Strength	Above 1,050	kPa
Tearing Strength	80 (18.0) / 57 (12.8)	N (lbf)
Breaking Strength	2,092.7 (470.5) / 1,463.1 (328.9)	N (lbf)
Elongation	50.4 / 53.5	%
Adhesion Strength	157.4 (30.3)	N/2.54 cm (lbf/inch)
Abrasion Resistance	1,066	cycles
Packing	30 yds	roll
Constructions	<ul style="list-style-type: none"> • Polyester fabric (front) • CSM Rubber (back) 	



VIDEO





Cleanroom

Goggles & Helmets

Autoclavable Cleanroom Goggles

These goggles are for use in rooms with controlled contamination such as sterile and cleanrooms and working in aseptic conditions, which includes but not limited to chemical, pharmaceutical, electronic industries or hospital laboratories.

They are developed to withstand multiple autoclave sterilization without perceptible alterations. The careful design allows a long time use and maximum transpiration, providing large field of view and use over all prescription glasses.

Autoclave
40 times



C02P-006



*Adjustable silicone band with a polycarbonate Snap-On Clip



C02P-007



*Non-allergic 24 mm wide adjustable silicone band

Features

- Sterilizable in autoclave in steam. Lens, frame and band can withstand 40 cycles of autoclave (121°C, 110kPa, 20mins)
- Lens are replaceable.
- Thermoplastic rubber frame
- Wide panoramic anti-fog lens
- Indirect ventilation to protect against chemical splashes
- Compatible or can fit over most prescription glasses
- Meets Safety glass standard of "EN166 34B"
- The Environmental Management System of Factory complies with the requirements of ISO 14001:2015 (Certificate No: EMS41506)

Test Data Summary (In accordance with EN166:2001)

Parameter	Results	Remarks
Refractive Power (Mounted and unmounted oculars covering both eyes)	PASS	Optical Class 1
Quality of Material and surface	PASS	---
Increased Robustness (Type: Goggle)	PASS (55±2°C) PASS (-5±2°C)	5.1 m/s 22 mm 43 g Drop Ball 1.3 m
Stability at elevated temperature	PASS	---
Protection against optical radiation	VLT: 88-90%	UV 295 nm
Protection against high-speed particles (Type: Goggle)	PASS	Medium Energy impact (B) 120 m.s-400fps 6 mm dia ball of 0.86 g
Resistance to fogging of oculars	PASS	"N" marking req't: ≥ 8 (s)

Packing

C02P-006 1 pc/bag, 50 bags/case

C02P-007 1 pc/bag, 50 bags/case

Cleanroom Safety Goggles



Item Code	C02P-001
Lens	Anti-fog coated clear lens
Material	Frame: Silicone
	Lens: Polycarbonate (PC)
	Headband: Silicone with Snap-On Clip
Weight	91.2 g

Features

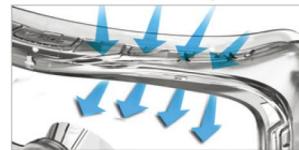
- Cleanroom compatible
- Anti-fog clear lens
- Silicone frame
- Autoclavable frame
- Heat and chemical resistance
- Anti-static function
- No particles and no allergy



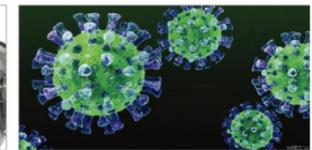
(Bellows Design)



(Wide View)



(Ventilation System)



(Antibacterial Action)



Features

- Cleanroom compatible
- Anti-fog clear lens
- Autoclavable (up to 40 cycles)
- Soft and comfortable frame
- Special ventilation concept
- Adjustable silicone headband, latex-free
- CE Certified

Item Code	C02P-005
Lens	Anti-fog coated clear lens
Material	Frame: Thermoplastic rubber (Grey)
	Lens: Polycarbonate (PC)
	Headband: Silicone (Hazy)
Weight	110 g
Dimensions	16.5×3.5×8 cm (L×W×H)



C02P-004



C02P-009

Features

- Cleanroom compatible
- EO (Ethylene Oxide) sterilized
- Anti-fog clear lens
- Soft and comfortable clear frame
- Indirect ventilation
- Adjustable silicone headband, latex-free
- CE Certified

*Disposable

Item Code	C02P-004	C02P-009
Lens	Anti-fog coated clear lens	
Material	Frame: PVC (Clear)	
	Lens: Polycarbonate (PC)	
	Headband: Silicone (Hazy)	
Weight	80 g	
Dimensions	15×6.5×8 cm (L×W×H)	

Bump Cap



Top Side Inner Side Back Side

Features

- This Bump Cap is developed to meet needs for a light work environment.
- Assembly lines in electronics car industries, etc.
- Cleanroom work place



Ratcheting fitment dial makes adjustment easy while wearing the Helmet.

Item Code	C06P-001-WH	C06P-001-SB	C06P-002-WH	C06P-002-SB
Material	Polypropylene (PP), ESD & Cleanroom Fabric (Chin Strap)		Polypropylene (PP)	
Color	White	Sky Blue	White	Sky Blue
Component	with Chin Strap	with Chin Strap	without Chin Strap	without Chin Strap

Cleanroom Safety Helmet



Front Side Back Side Top Side Inner Side

Features

- The helmet is developed to meet needs for light work and cleanroom environment.
- Stable 6pin strap suspension
- Auto unwinding chin strap
- Install RBS shock absorber for best shock absorb performance
- Install low nape strap hair band for comfortable fit

Item Code	C05P-001 (Standard Peak)	C05P-002 (Short Peak)
Material	ABS (Acrylonitrile Butadiene Styrene)	
Class	ABE	
Weight	373 g	
Color	White, Sky Blue, Blue, Red, Yellow, Grey	



Ratcheting fitment dial makes adjustment easy while wearing the Helmet.

Safety Helmet Class

- A Grades** Prevent the falling object
- AB Grades** Prevent the falling object, falling
- AE Grades** Prevent the falling object, electric shock under 7000V
- *ABE Grades** Prevent the falling object, falling, electric shock

Cleanroom Gloves



Seamless Gloves

Seamless Gloves is breathable Gloves. It consists of polyester knitted fabric and laminated with breathable polyurethane film, which combines friendly feel of fabric with the protection of elastomer. Its moisture permeability protects operators from rash harsh chemicals.



M30G-001-WH-size



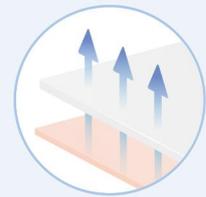
Features

- Seamless high frequency welding instead of sewing
- Antistatic properties
- Can operate smart phone touch screen your gloves on
- Laundered with 18Mohm deionized water twice and packed in Cleanroom
- Excellent comfortability

Materials

- Polyurethane Coated Knitted Polyester
(Inner layer – Knitted Polyester / Outer layer – Polyurethane)

- No inner gloves wear needed
- Water proof and vapor permeability
- No skin irritation and eczema
- Improve work efficiency
- Reusable



Applications

- Pharmaceutical, Medical and Hospital Industries
- Semiconductor and Electronic Industries

Properties	Unit	Result	Test Method
Thickness	mm	0.23±0.05	JIS L 1018
Weight	Small (S)	(g/piece)	72±2
	Medium (M)	(g/piece)	82±2
	Large (L)	(g/piece)	92±2
Elongation	%	83.8	
Tensile Strength	(kPa)	553	
Moisture Permeability	(g/m ² /24hr)	2,012	JIS L 1099
Water Resistance	(Mm/H2O)	8,000 ↑	JIS L 1092

Descriptions	Glove Length	Cuff Width	
Size (mm)	Small (S)	258	115
	Medium (M)	265	120
	Large (L)	300	132
Packing	10 pairs/bag, 50 bag/carton		

Ion	Unit	Result	Test Method
DOP	(mg/kg)	N/D	KS M 0027(GC/MS)
DOP	(mg/l)	N/D	KS M 0027(GC/MS)
NA	(mg/l)	0.7	ICP
Mg	(mg/l)	N/D	ICP
K		N/D	ICP
Ca		N/D	ICP
NH4		N/D	UV/Vis
NO2		N/D	ICP
NO3		N/D	ICP
SO4		N/D	ICP
Cl		0.8	ICP

ESD Heat Resistant Gloves



M24G-006 (EHR-150N)



M24G-008 (EHR-150/45N)



M24G-007 (EHR-300N)



M24G-009 (EHR-300/45N)

Item Code	M24G-006	M24G-008	M24G-007	M24G-009
Model	EHR-150N	EHR-150/45N	EHR-300N	EHR-300/45N
Surface Resistance (ohm)	< 10e11	< 10e11	< 10e11	< 10e11
Heat Resistance	Up to 150°C	Up to 150°C	Up to 300°C	Up to 300°C
Length	280 mm	450 mm	280 mm	450 mm

Materials and Layer Constructions

Palm + Back



Palm



Back



- ① Polyurethane film laminated nylon tricot fabric with Beltron conductive fiber in 5 mm stripe
- ② Heat insulating felt (polyester)
- ③ Nylon Tricot inner
- ④ Conductive yarn integrated with DuPont Nomex fabric

※ Silicone free type is available on request.

Latex Gloves



Item Code	M28G-013-YE-size	M28G-017-YE-size	M28G-021-YE-size
Material	Natural High Grade Rubber Latex		
Color	Natural		
Length (All sizes)	12" (300 mm) ± 10 mm		
Palm Width (XS/S/M/L)	76/84/94/105 ± 3 mm		
Thickness (single wall)	Finger	0.15 ± 0.02 mm	0.17 ± 0.02 mm
	Palm	0.13 ± 0.02 mm	0.15 ± 0.02 mm
Weight (g/pc) (M)	7.2	8.0	9.5
Features	Cleanroom Compatible, Powder free, Full textured, Beaded cuff, Non-sterile, Double Chlorinated		
Packing	100 pcs/ double bag, 10 bags/carton		
Shelf Life	5 years		

Item Code	M28G-025-YE-size	M28G-032-YE-size	M28G-037-YE-size
Material	Natural High Grade Rubber Latex		
Color	Natural		
Length (All sizes)	9" (240 mm) ± 10 mm	12" (300 mm) ± 10 mm	11.5" (292 mm) ± 10 mm
Palm Width (XS/S/M/L)	76/84/94/105 ± 3 mm	73/83/93/103 ± 3 mm	- /85/96/109 ± 3 mm
Thickness (single wall)	Finger	0.13 ± 0.02 mm	0.22 ± 0.02 mm
	Palm	0.12 ± 0.02 mm	0.20 ± 0.02 mm
Weight (g/pc) (M)	6.4	9.9	9.2
Features	Powder free, Full textured, Beaded cuff, Non-sterile, Single Chlorinated	Cleanroom Compatible, Powder free, Full textured, Beaded cuff, Double Chlorinated	Cleanroom Compatible, Powder free, Silicone Free, Beaded cuff, Finger textured, Double Chlorinated
Packing	100 pcs/dispenser, 10 dispensers/carton	100 pcs/ double bag, 10 bags/carton	100 pcs/bag, 10 bags/carton
Shelf Life	5 years		

Cleanroom Stationery



Polstar Cleanroom Paper and Cleanroom Notebook are specially designed for writing, printing and photocopying in Cleanroom environments. Through a polymerization process, fiber lint and particulates are tightly bound to each other. This reduces electrostatic buildup and ultimately minimizes the scrap rate of the copy paper.

Cleanroom Paper



Cleanroom Notebook



Features

- Low Talc / Talc Free (TF Cleanroom Paper)
- Recyclable
- Clear writing
- Double packing (Single packing – option) in cleanroom
- Ultra-low particle generation, extractable chemical substances and metallic ion content
- High opacity and durability
- Good tear and tensile strength
- Smooth feeding and superior toner adherence in laser printers and PPC copiers

Item Code	Product	Weight (g)	Size (mm)		Packing
M01S-000	Cleanroom Paper	72 80 100 250	A3	420×297	250 sheets/pk, 5 pks/ctn
			A4	210×297	250 sheets/pk, 10 pks/ctn
			A5	210×148	250 sheets/pk, 20 pks/ctn
			B4	257×364	250 sheets/pk, 5 pks/ctn
			B5	182×257	250 sheets/pk, 10 pks/ctn
			Full Size	645×900	9 sheets of A4 size are available
	850×900	12 sheets of A4 size are available			
	Cleanroom Paper (Roll type)		2", 3" (core)×30~1600 mm(W) ×30~10,000 m(L)		
M21S-000	TF Cleanroom Paper	72	A3	420×297	250 sheets/pk, 5 pks/ctn
			A4	210×297	250 sheets/pk, 10 pks/ctn
			A5	210×148	250 sheets/pk, 20 pks/ctn
M05S-000	Cleanroom Notebook	72 ,80	Spiral / A4	210×297	50 sheets/book
			Spiral / A5	210×148	50 sheets/book
			Spiral / A6	105×148	50 sheets/book
			Stapler / A4	210×297	30 sheets/book
			Stapler / A5	210×148	30 sheets/book

* Color: M01S-000, M05S-000 - White, S. Blue, R. Blue, L. Blue, Green, Pink, Yellow, Orange

M01S-000 (100 gsm) - White, S. Blue, R. Blue M21S-000 - White, L. Blue

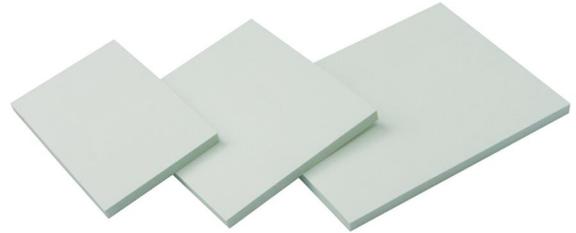
Clip-on Notepads



Item Code	M55S-001	M55S-002
Material	Cleanroom Paper (10 Sheets) + PE back cover	
Size	2"×3"	4.75"×3"

* Class 10 Cleanroom Packed. * Made for garments with no pockets.
* Item can be Sterilized.

Clean Sticky Notes



Item Code	M06S-001	M06S-002	M06S-003
Material	Clean Paper (72 g)		
Size	2"×3"	3"×3"	4"×3"

Cleanroom Clipboard

Item Code	M55S-001	M55S-002
Material	PE	PE
Color	White, Navy, Green, Red, Yellow, Orange	White, Navy, Green, Red, Yellow, Orange
Size	1.25"×9.125"×13" (for 8.5 x 11 sheet)	1.25"×9.125"×16" (for 8.5 x 14 sheet)
Packing	10 per pack	11 per pack



* Class 10 Cleanroom Packed. * 95% post-industrial recycled material (BK, NA, GE)

Cleanroom Ring Binder



Item Code	M54S-001-color	M54S-002-color	M54S-003-color	M54S-004-color
Material	PE Cover + Metal or Plastic Ring			
Color	White(WH), Blue(BL), Red(RE), Black(BK)			
Ring	3 rings (Plastic)	3 rings (Metal)	3 rings (Metal)	3 rings (Metal)
Size	1"	1"	2"	3"

* Class 10 Cleanroom Packed. * Poly Pocket on the front cover for documentation or labeling * Each binder is individually double-bagged.

Cleanroom Pen



Features

- Ball size: 0.8 mm
- Double poly packed in Class 10 (ISO 3)
- Low Sodium, Chloride and Heavy Metal used Ink
- Non-smearing permanent Ink
- Low outgassing and particulate generation material is used
- Barrel is made of HDPP (high-density polypropylene)
- Rectangular clip design

Item Code	Type	Color	Packing
M39S-004-BK	Stick type	Black	12 pcs/bag
M39S-004-BL		Blue	
M39S-004-RE		Red	
M39S-005-BK	Click type	Black	12 pcs/bag
M39S-005-BL		Blue	
M39S-005-RE		Red	

Cleanroom Maker



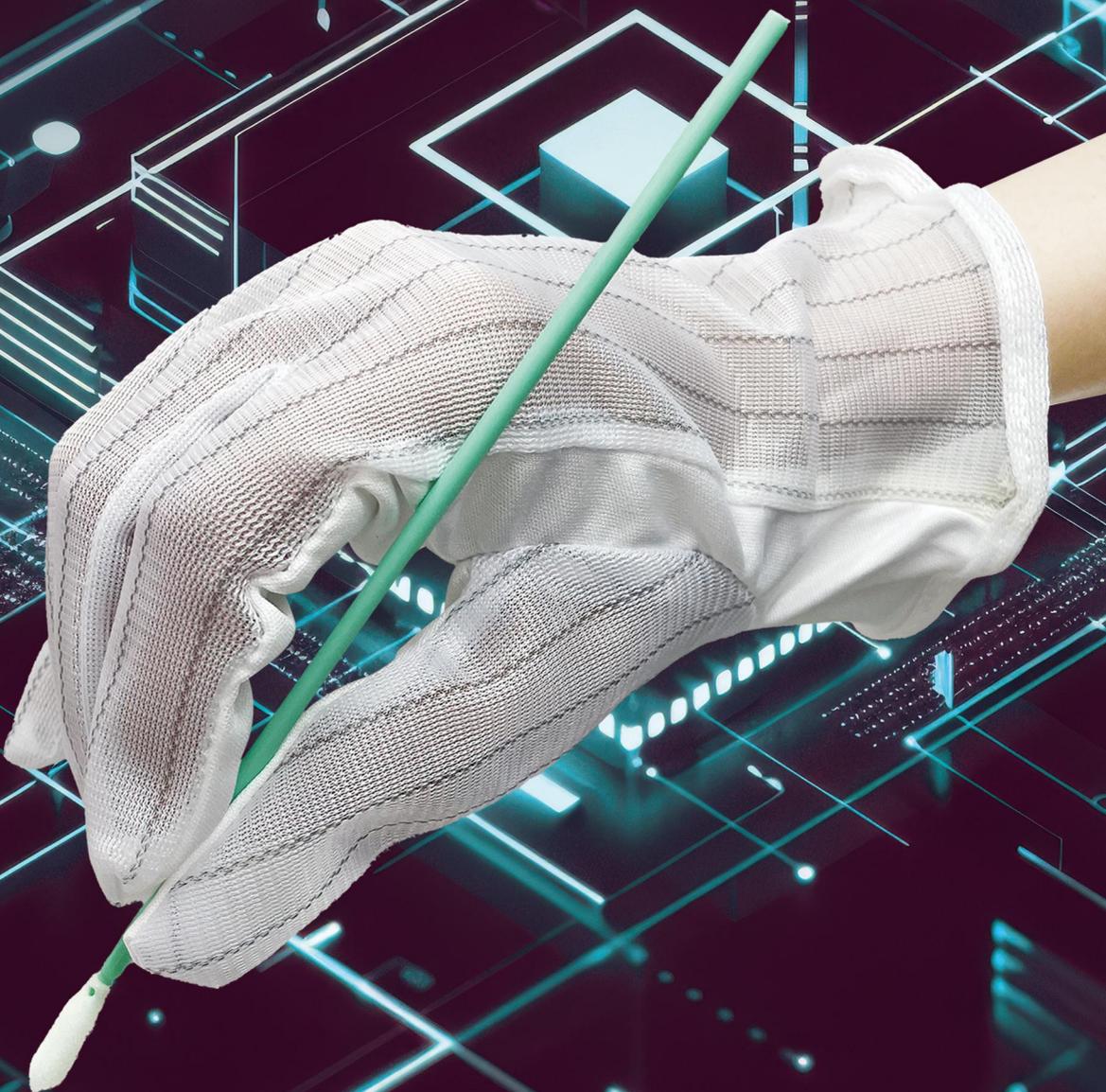
Item Code	M53S-001-BK	M53S-001-BL	M53S-001-RE	M53S-002-BK	M53S-002-BL	M53S-002-RE
Color	Black	Blue	Red	Black	Blue	Red
Descriptions	Dry erase, Chisel tip			Dry erase, Bullet tip		
Packing	12 markers per box			12 markers per box		



Item Code	Color	Descriptions	Packing
M53S-003-BK	Black	Felt tip, Water proof, Smear & fade-Resistant	12 markers per box
M53S-003-BL	Blue		
M53S-003-RE	Red		
M53S-003-GE	Green		

Item Code	Color	Descriptions	Packing
M53S-004-BK	Black	Chisel tip Permanent, Quick-drying, IPA-Resistant	12 markers per box

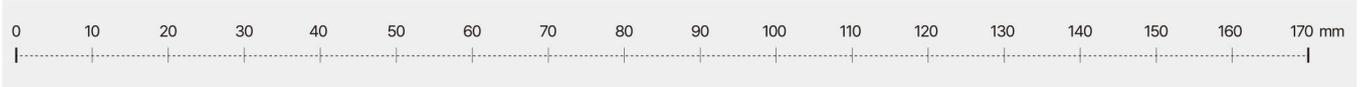
Cleanroom Swab



PU Swab



Polyester Swab



M16C-028 ● ●



M16C-030 ● ●



M16C-031



M16C-042



M16C-043



M16C-044



M16C-045



M16C-046



M16C-047

ESD Polyester Swab



M17C-006 ○ ●



M17C-007 ○ ●

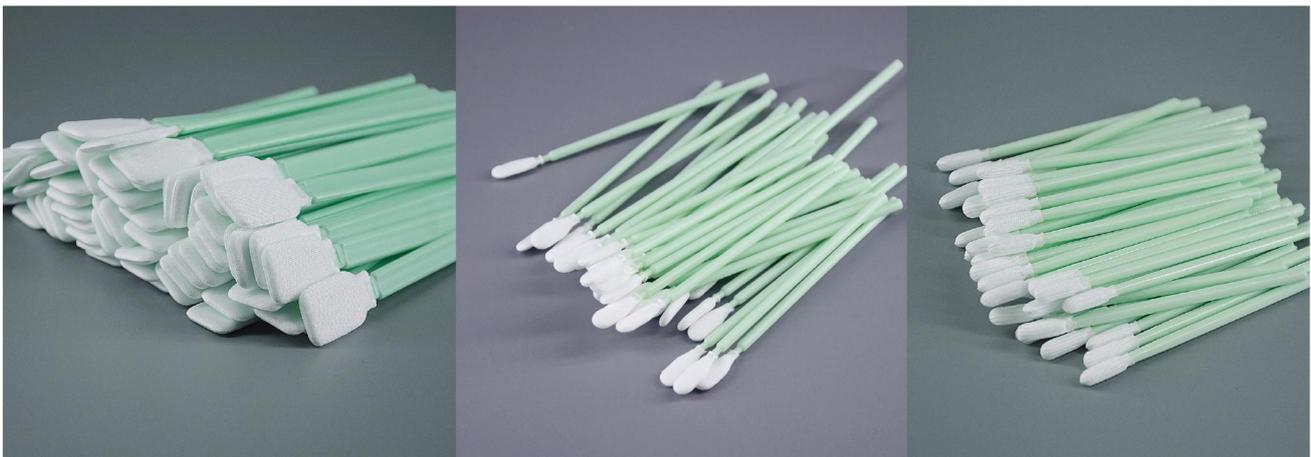


M17C-008 ○ ●



M17C-009 ○ ●

Item Code	Materials		Size		Packing
	Tip	Stick	Tip (W × L)	Total Length	
M16C-017	PU	PP	3 mm×13 mm	68 mm	100 pcs/bag, 40 bags/l.box, 12 i.bboxes/case
M16C-018			4 mm×10 mm	68 mm	100 pcs/bag, 40 bags/l.box, 12 i.bboxes/case
M16C-023			15 mm×25 mm	132 mm	50 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M16C-024			11 mm×23 mm	134 mm	50 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M16C-025			11mm×22 mm	148 mm	50 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M16C-027			6 mm×17 mm	163 mm	100 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M16C-033	PU	PU	3.5 mm×12 mm	71 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-034			3.2 mm×11 mm	77 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-035			3.5 mm×11 mm	70 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-036			3.7 mm×15 mm	65 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-037			4 mm×21 mm	70 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-038			4.5 mm × 18 mm	163 mm	100 pcs/bag, 200 bags/ctn
M16C-039			8 mm × 23 mm	110 mm	100 pcs/bag, 200 bags/ctn
M16C-040			15 mm × 25 mm	130 mm	50 pcs/bag, 50 bags/ctn
M16C-041	20 mm × 27 mm	133 mm	50 pcs/bag, 100 bags/ctn		
M16C-028	Knit Polyester	PP	3 mm × 13 mm	68 mm	100 pcs/bag, 40 bags/l.box, 12 i.bboxes/case
M16C-030	Polyester	PP	3 mm × 17 mm	163 mm	100 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M16C-031	Micro Denier Fabric with PP Tube	PP	8 mm × 20 mm	153 mm	100 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M16C-042	Polyester	PU	3.5 mm×11 mm	70 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-043			3.2 mm×11 mm	75 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-044			3.8 mm×12 mm	71 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-045			7.0 mm×17 mm	93 mm	100 pcs/bag, 200 bags/ctn
M16C-046			7.0 mm×17 mm	163 mm	100 pcs/bag, 200 bags/ctn
M16C-047			13 mm×25 mm	125 mm	100 pcs/bag, 50 bags/ctn
M17C-006	PU	A/S PP	3 mm × 13 mm	68 mm	100 pcs/bag, 40 bags/l.box, 12 i.bboxes/case
M17C-007	PU	Con. PP	11 mm × 22 mm	148 mm	50 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M17C-008	PU	Con. PP	6 mm × 17 mm	163 mm	100 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M17C-009	Knit Polyester	Con. PP	3 mm × 13 mm	68 mm	100 pcs/bag, 40 bags/l.box, 12 i.bboxes/case



Cleanroom Vacuum Cleaner & Sealer



Cleanroom Vacuum Sealer (Nozzle type)

Desk top type



Stand type



Features

- Do not need air compressor for an electric type. You can use it after just connecting electric cord.
- Quiet sound in electric type. It is recommendable for a small office, a store, etc.
- Easy to control thanks to a simple digital controller.
- Good durability and strong for corrosion thanks to Stainless steel case.
- Support various mode such as vacuum, sealing, gas and gas flushing.
- Compact size for easy installation.



Features for Digital Controller

- Memory function
- Counting function
- Temperature indicator
- Auto nozzle function
- Key lock to prevent malfunction
- Vacuum and temperature sensor for reliable vacuum packing
- Self-diagnosis function.

Physical property

Item Code	Sealing Size (mm)		Power Consumption (KW)	Vacuum Pump	Air Consumption	Work Capacity (depend on the items)	Dimension (mm)	Net/Gross Weight (kg)
	Width	Length						
M41E-021	10	350	1.5	Electric Motor Pump	N/A	1~6 ea/min	520×500×515	26/38
M41E-022	10	450	1.7				630×530×515	27/40
M41E-036	10	600	2.2				780×530×515	29/43
M41E-023	10	450	1.7	Ejector pump (options: oilless pump, oil pump)	5~7 kg/cm ²	1~10 ea/min	630×530×515	31/46
M41E-024	10	600	2.2				780×530×515	32/49
M41E-025	10	800	3.5				970×530×515	35/55

Cleanroom Vacuum Cleaner



Item Code	M12E-001	M12E-002	M12E-003	M12E-004
Descriptions	CR-5050N	CR-5050S	CR-5050SM	CR-5040SD
Electric Power	220V / 50 ~ 60Hz (110V is available on request)			
Vacuum Motor	1350W (Dry type motor)			2700W (1350W×2)
Recovery Tank (ℓ)	34	44	9	75
Filtering Capacity (%)	99.97 (0.3 μm)	99.99 (0.12 μm)	99.97 (0.3 μm)	95 (0.5 μm)
Bag Filter Capacity (ℓ)	10	10	6	20
Cleanroom Class	Class 100 ~ 1,000	Class 10 ~ 100	Class 100 ~ 1,000	Class 1,000 ~ 10,000
Inside Filter	3 STEPS Paper Polyester HEPA Filter	5 STEPS Paper Polyester IMPACT Filter HEPA Filter ULPA Filter	3 STEPS Paper Polyester HEPA Filter	3 STEPS Paper Polyester HEPA Filter
Dimension (cm)	52×54×87	52×54×87	35×35×65	73×65×123
Net Weight (kg)	14.25	16.55	9.2	35
Gross Weight (kg)	19	20	12	39



Accessories M12E-001 (CR-5050N) / M12E-003 (CR-5050SM)



- ① Intake
- ② Non-Woven Filter
- ③ Polyester Filter
- ④ Motor
- ⑤ H.E.P.A. Filter



- ① HEPA Filter
- ② Polyester Filter
- ③ Non-Woven Filter
- ④ Filter Basket
- ⑤ Hose Connector
- ⑥ Hose
- ⑦ Curved Connector
- ⑧ Adjustable Wand (S, A/L)
- ⑨ Floor&Carpet Tool
- ⑩ Crevice Tool
- ⑪ Round Brush

Accessories M12E-002 (CR-5050S)



- ① Intake
- ② Non-Woven Filter
- ③ Polyester Filter
- ④ Impact Filter
- ⑤ H.E.P.A. Filter
- ⑥ Motor
- ⑦ U.L.P.A. Filter



- ① ULPA Filter
- ② HEPA Filter
- ③ IMPACT Filter
- ④ Polyester Filter
- ⑤ Non-Woven Filter
- ⑥ Hose Connector
- ⑦ Hose
- ⑧ Curved Connector
- ⑨ Adjustable Wand (S, A/L)
- ⑩ Floor&Carpet Tool
- ⑪ Crevice Tool
- ⑫ Round Brush

Accessories M12E-004 (CR-5040SD)



- ① Filter holder
- ② Polyester Filter
- ③ Paper Filter
- ④ Suction Hose
- ⑤ Curved Handle
- ⑥ Hose Connector
- ⑦ Wand
- ⑧ Floor&Carpet Tool
- ⑨ Crevice tool
- ⑩ Round Brush
- ⑪ HEPA Filter

Item Code	M12E-001	M12E-002	M12E-003	M12E-004
	CR-5050N	CR-5050S	CR-5050SM	CR-5040SD
ULPA Filter	×	○	×	×
HEPA Filter	○	○	○	○
IMPACT Filter	×	○	×	×
Polyester Filter	○	○	○	○
Paper Filter	○	○	○	○
Hose Connector	○	○	○	○
Hose	○	○	○	○
Curved Connector	○	○	○	○
Adjustable Wand	○	○	○	○
Floor&Carpet Tool	○	○	○	○
Crevice Tool	○	○	○	○
Round Brush	○	○	○	○

Microfiber Cleanroom Wiper
INOX-1008



Cleanroom

Wipers & Supplies

Microfiber Cleanroom Wiper

A High-Performance Wiper for Critical Applications

The Microfiber Wiper, INOX-1008, represents the next generation of cleaning solutions, carefully designed to meet the high standards of modern high-tech industries. This product offers comparable performance to leading wipers such as S***na MX, making it a reliable and cost-effective alternative for cleanrooms and other sensitive environments. Engineered with a high-density structure, it delivers superior cleaning performance and durability to meet the most strict cleanliness standards.

Unlike many other typical microfiber wipers that use 75 denier, 36-filament fabric, our Microfiber Wiper is made with 75 denier, 48-filament fabric, resulting in a significantly higher density. This advanced structure ensures enhanced cleaning efficiency, outperforming conventional wipers.



Model	Item Code	Size
Inox-1008	M02W-041	9"×9"
	M02W-042	5"×5"

Technical Specifications

Item	Unit	Specifications
Material	-	Knitted Polyester + Micro Denier Nylon (High Density)
Cutting		By Laser
Size	inch	9 x 9, 5 x 5
Weight	g/m ²	Min. 180
Thickness	mm	0.45 ± 0.03
Air Particles	ea/sh(≥0.3 μm)	Max. 30 (9"x9")
Absorption Amount	g/m ²	Min. 350
Absorption Rate	sec	Max. 10
Cleanroom Grade	-	Class 100 (ISO 5)

Features

- High-Density Construction
- Negligible Lint Generation
- Excellent Water Absorbency
- Low Ion Dissolution
- Exceptional Cleaning Power

Applications

Ideal for critical environments such as:

- Semiconductor and LCD manufacturing.
- Laboratories requiring strict dust control.
- Cleanrooms for pharmaceutical and medical device production.

Microfiber Woven Wiper

Technical Specifications

Item	Unit	Specifications
Material	-	Polyester 80% + Micro Denier Nylon 20% (Woven type)
Cutting		By Laser
Size	inch	9 x 9, 5 x 5
Weight	g/m ²	Min. 120
Thickness	mm	0.3 ± 0.26
Air Particles	ea/sh(≥0.3 μm)	Max. 30 (9"x9")
Absorption Amount	g/m ²	Min. 230
Absorption Rate	sec	Max. 10
Cleanroom Grade	-	Class 100 (ISO 5)



Model	Item Code	Size
Inox-1002	M02W-039	9"×9"
	M02W-040	5"×5"

Polyester Knit Wiper

Features

- 100% Polyester continuous yarn
- Cost-effective solution
- Good absorption capacity
- Low particle generation
- Double packed in Class 100~1000 Cleanroom



Model	Item Code	Size
Inox-3140	M01W-025	9" × 9"
	M01W-039	6" × 6"
	M01W-038	4" × 4"
	M01W-037	2" × 2"
Inox-3070	M01W-026	9" × 9"

Micro-Denier Fiber Wiper

Features

- Excellent wiping without scratches
- Extremely low non-volatile residues and ions
- Excellent absorption capacity
- Suitable for sensitive surface by its soft texture
- Double packed in Class 10~100 Cleanroom



Model	Item Code	Size
Inox-1003	M02W-004	9" × 9"
	M02W-005	6" × 6"
	M02W-006	4" × 4"

Model	Item Code	Size
Inox-1006	M02W-007	9" × 9"
	M02W-008	6" × 6"
	M02W-009	4" × 4"



Model	Item Code	Size
Inox-1050	M02W-027	9" × 9"

Model	Item Code	Size
Inox-1080	M02W-028	9" × 9"

Item Code	Size
M06W-020	9" × 9"
M06W-021	6" × 6"
M06W-022	4" × 4"

Differences between microfiber wipers and polyester wipers

Materials

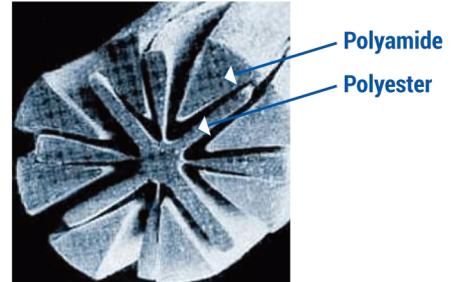
Microfiber wipers: microscopic polyester(70~80%) and polyamide(20~30%) fiber
Polyester wipers: 100% polyester yarn

Touch

Microfiber wiper is much softer than Polyester wiper.

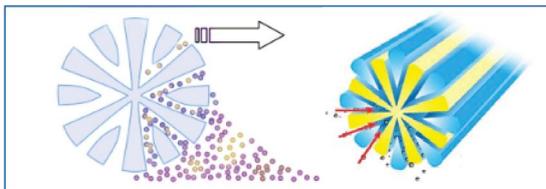
Absorbency

Microfiber wiper has a better absorbency thanks to its unique fiber structure.

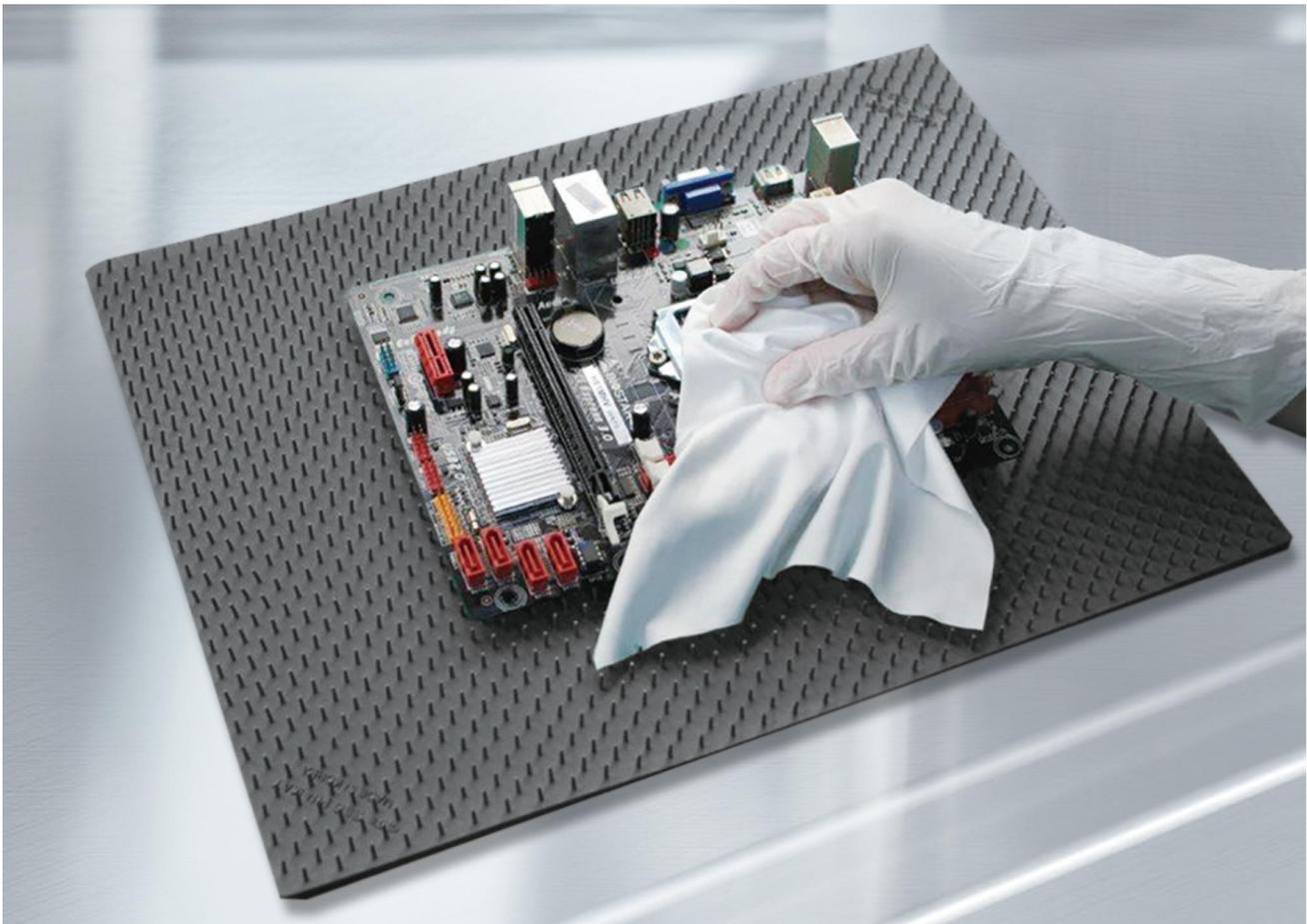
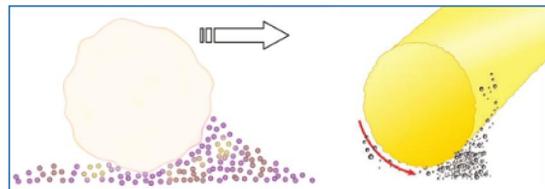


The Cross Section of a single fiber

① Microfiber



② Polyester fiber



PVA Sponge Wiper

What is a PVA Sponge?

The PVA Sponge is a kind of wiper that is composed of uniform and continuous foamed open cells made by aged Poly Vinyl Alcohol as a raw material. The PVA Sponge has an excellent chemical resistance. It is lint & dust free and soft. The PVA Sponge can be used in many industries, such as a sophisticated cleaning sector in semiconductor industry or health & beauty industries. With being able to adjust its absorption, elasticity, size, density, color and shape, PVA sponge is highly versatile, which easily fits in any industrial fields.

Features

- Excellent ability to remove moisture due to a strong hydrophilic feature, allowing it to absorb water more than 10 times its own weight.
- The wet texture is soft and elastic.
- No lint or dust is generated during the cleaning.
- Excellent chemical resistance & abrasion resistance

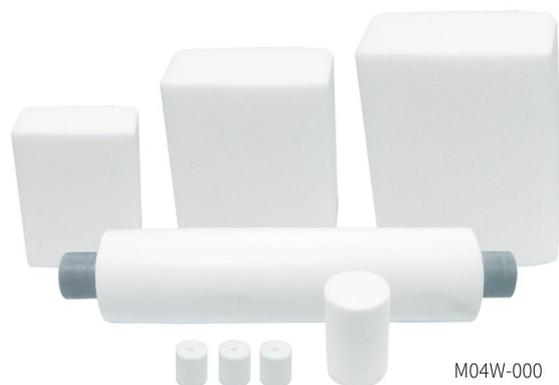
General use (sheet or blocks)

Widely used in various industrial fields, such as Cleanroom, PCB, Glass, Mirror, Optical instrument and many others. Other types (block, roller, sheet, etc.) are available.



M04W-001

Size 2 mm (T) x 9" x 9"
Packing 10 sheets/pack, 20 packs/ctn



M04W-000

Used in FPD & Semiconductor industries

Cleaning wafer surface after Chemical Mechanical Polishing (CMP) process.



PVA Sponge Roller (Embossing Type)



PVA Sponge Roller (Flat Type)



PVA Sponge Roller (Spur Type)



PVA Sponge Roller (Disk Type)

Cleanroom Face Mask

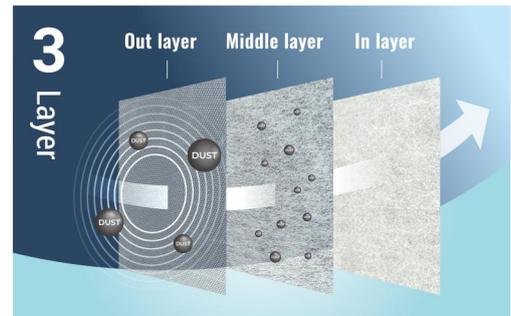
Features

- Adopting unique designs and materials
 - Using HDPE Film in Outer Layer (Low lint generation)
 - Using TPU Ear Band for Cleanroom Compatibility
 - Extended width (230 mm) for enhanced facial coverage
 - Attaching Ear Band onto the front side of the mask
- Fully automated individual packaging system in Cleanroom Class 100 environment
- Particle-controlled production line : Minimized human contact during production and packing process
- Using best fit materials required by each part to achieve comfortability, good air permeability and filtration
- All materials used have been passed in a skin trouble test with the mark of "Negligible"
- By using Polypropylene filter, which has a high efficient filtering performance with a good air permeability, as a middle layer, our Cleanroom Face Mask provides excellent comfortability to users.
- Suggested Applications
 - Semiconductor manufacturing - Pharmaceutical clean areas
 - LCD / OLED production line - Precision assembly line



Basic Information

Item Code	M01D-009	
Size	90×230 mm	
Material	Out layer	HDPE Film (1st filtration)
	Middle layer	Polypropylene Filter (2nd filtration)
	In layer	PET/PP mixed non-woven
	Ear Band	TPU
Packing	1 pc/individual bag, 50 pcs/bag, 30 bags/box	

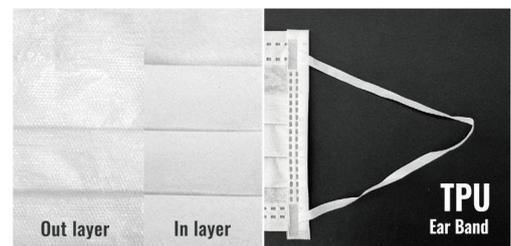
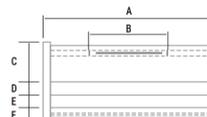


Product Specifications

(90 mm × 230 mm)

	A	B	C	D	E	F	Tolerance
Length (mm)	230	95	35	17	15	23	+/- 5%

	Measure	Standard
APC	ea/g, 0.1 μm, 1CFM	Max. 120
Dimensional Stability	%	Max. 5



TEST Data

Test Unit	Specifications	APC Test			
		20 - RPM	30 - RPM	40 - RPM	50 - RPM
Cleanliness (5 ea)	Less than 825.0	410.7	643.4	648.9	639.1
Cleanliness (1 ea)	Less than 165.0	82.1	128.7	129.8	127.8
Cleanliness (g)	Less than 50.0	24.6	40.9	31.9	34.1



Ion Test		
Test Unit	Results (mg/L)	Test Methods
Na	0	ICP Test
Ca	0	ICP Test
Ci	0	IC Test

Skin Trouble Test		
Test Unit	Results (mg/L)	Test Methods
Mask Body	Negligible	ISO 10993-10 Skin irritation test
TPU Band	Negligible	ISO 10993-10 Skin irritation test

Sticky Mat

Features

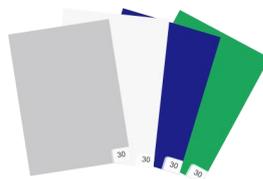
- 99.80% of dust collection at several steps on the mats.
- Collected dust on the mats is not migrated.
- Comfortable walking and smooth passing of hand carts.
- Mat can be used with/without the frame.
- Adhesive level can be adjusted on request.
- Antimicrobial sticky mat is available for pharmaceutical, biological and medical areas.
- ESD sticky mat is available for static sensitive areas.
- Thin film sticky mat at economical price is another option.

Item Code	M01C-000
Film Thickness	30 μm, 35 μm, 40 μm, 45 μm (±5 μm)
Size	18"×36", 18"×45", 24"×36", 26"×45", 36"×45", etc.
Color	Blue, White, Grey, Green, etc.
Adhesive (g/25 mm)	350 ± 50 g (surface) – adjustable 700 ± 50 g (bottom)
Material	Polyethylene (LDPE)
Packing	30 sheets or 60 sheets/mat, 4 mats, 8 mats, 10 mats/case, etc.
Surface Resistance (M02C-000 / E10S-000)	10e9 ~ 10e11 ohm
Reduction of Bacteria (E01S-000 / E10S-000)	99.9%



Variations

- M01C-000 Standard Sticky Mat
- M02C-000 ESD Sticky Mat
- E01S-000 Antimicrobial Sticky Mat
- E10S-000 ESD Antimicrobial Sticky Mat



Frame For Sticky Mat

Item Code	M04C-007	M04C-008
Material	Rubber	
Color	Green	
Size	600×900 mm	600×1200 mm



Cleanroom & ESD Chair

Item Code	M22E-001	M22E-002	M22E-003
Appearance			
Material	Seat	ESD PU leather	ESD PU leather
	Back	ESD PU leather	-
	Body	Aluminium + Metal with hard chrome coating	
	Caster	Metal	Metal
Color	Black	Body: Black Pad: Blue or Black	Blue or Black
Surface Resistance (ohm)	10e5 ~ 10e8	10e5 ~ 10e8	10e5 ~ 10e8
Resistance to Ground (ohm)	10e5 ~ 10e8	10e5 ~ 10e8	10e5 ~ 10e8
Back Seat Size (W×H)	43 cm×37 cm	44 cm×50 cm	-
Seat Size (W×D)	48 cm×43 cm	45 cm×40 cm	39 cm (dia)
Height (Bottom to Seat) (Adjustable)	45 cm ~ 59 cm	41 cm ~ 56 cm	45 cm ~ 59 cm
Filter System	Air Exhausted from sealed cushion is passed through HEPA filter	-	-
Cleanroom Class	1,000 ~ 10,000	1,000 ~ 10,000	1,000 ~ 10,000

Item Code	M22E-007	M22E-008	M22E-015
Appearance			
Material	Seat	ESD PU leather	ESD PU leather
	Back	ESD PU leather	ESD PU leather
	Body	Aluminium + Metal with hard chrome coating	
	Caster	Chrome coating to aluminium diecasting	
Color	Blue or Black	Blue or Black	Blue or Black
Surface Resistance (ohm)	10e5 ~ 10e8	10e5 ~ 10e8	10e5 ~ 10e9
Back Seat Size (W × H)	44 cm×50 cm	44 cm×50 cm	40 cm×30 cm
Seat Size (W × D)	45 cm×40 cm	45 cm×40 cm	48 cm×43 cm
Height (Bottom to Seat)	47 cm ~ 61 cm	41 cm ~ 56 cm	44 cm ~ 59 cm
Filter System	-	-	Air Exhausted from sealed cushion is passed through HEPA filter
Cleanroom Class	1,000 ~ 10,000	1,000 ~ 10,000	1,000 ~ 10,000

Cleanroom Mop



M19C-001



M19C-003



M19C-013



M19C-019

Wet Mop

Wet Mop is the most popular 1/4" knitted tube mop that MEC supplies. The mop is made of 100% microfiber polyester, makes it incredibly liquid-absorbent while particle generation is suppressed at the reasonable level. It is cost-effective, easy to use and works great for the application.

Item Code		M19C-001	Wet Mop Set
		M19C-004	Wet Mop Refill
		M19C-011	Wet Mop Handle
Size	Mop	16 cm × 35 cm	
	Handle	80 cm ~ 150 cm (Adjustable)	
Material	Mop	100% Microfiber Polyester	
	Handle	Aluminium	

Flat Mop with SUS Plate

SUS Flat Mop is the best cleanroom mop MEC has to offer. The mop is made 1/4" knitted tube yarn, cleanroom-laundered as well as packaged in cleanroom, plus stainless steel handle makes it extremely low particle-generating mop. High-class cleanrooms, hospitals and labs will be excellent applications for Flat Mop.

Item Code		M19C-003	SUS Flat Mop Set
		M19C-008	SUS Flat Mop Refill
		M19C-010	SUS Flat Mop Handle
Size	Mop	12 cm × 40 cm	
	Handle	80 cm ~ 150 cm (Adjustable)	
Material	Mop	100% Microfiber Polyester	
	Handle	Stainless Steel	

Flat Mop with Plastic Plate

Plastic Flat Mop is edgeless knitted tube mop that is made of 100% microfiber polyester. This mop comes with simple, solid handle that provides excellent durability, while the mop frame has a foot-press button on top for easier mop replacement, making it one of the most convenient mops to work with.

Item Code	M19C-013	Plastic Flat Mop Set
	M19C-006	Plastic Flat Mop Refill
	M19C-015	Plastic Flat Mop Handle
Size	Mop	12.5 cm × 60 cm
	Handle	125 cm (Non-adjustable)
Material	Mop	100% Microfiber Polyester
	Handle	Galvanized Steel

T Mop

T Mop is designed for cleaning windows, walls and ceilings because of the shape as well as lightweight aluminium frame. Cleanroom-laundered 100% microfiber polyester mop will be very effective at cleaning places your hands won't reach, and adjustable handle will make it even more viable.

Item Code	M19C-019	T Mop Set
	M19C-020	T Mop Refill
	M19C-021	T Mop Handle
Size	Mop	8 cm × 40 cm
	Handle	80 cm ~ 150 cm (Adjustable)
Material	Mop	100% Microfiber Polyester
	Handle	Aluminium

Wet Mop Refill

M19C-004



Size: 16 cm × 35 cm
100% Microfiber Polyester

SUS Flat Mop Refill

M19C-008



Size: 12 cm × 40 cm
100% Microfiber Polyester

Plastic Flat Mop Refill

M19C-006



Size: 12.5 cm × 60 cm
100% Microfiber Polyester

T Mop Refill

M19C-020



Size: 8 cm × 40 cm
100% Microfiber Polyester

Mop Trolley

Mop Trolley provides the utmost convenience and work efficiency to workers. All the components including buckets, wringer and casters are fully autoclavable to help maintain the trolley always clean. In addition, the whole trolley was designed around touchless mopping system, so workers wouldn't have to touch the mop refills throughout the entire cleaning stages.

Item Code	M31C-002
Main Material	Stainless Steel 304
Casters Material	Phenolic
Dimension	700 × 540 (mm) with handle and caster

Features

- Fully compatible with following sterilizations; autoclaving, ETO, Gamma Irradiation
- Removable handle for easier sterilization and storage
- 3 Buckets



ESD Cleanroom Bags (Fabric type)



Features

- Surface resistance: 10e6 ~ 10e8 ohm
- ESD Cleanroom fabric material
- Excellent durability
- Expandable (backpack and cross bag)
- Adjustable shoulder straps
- Suitable for Cleanroom and ESD environments
- Opaque bag
- Name card holder

Style	Item Code	Pictures	Dimensions (mm)
Backpack	M38S-013-SB M38S-013-GR		310 × 430 × 100 (160) *expandable (60 mm) *Zip Pocket ① 310 × 310 × 50 ② 310 × 190
	M38S-016-SB M38S-016-GR		390 × 290 × 80 (140) *expandable (60 mm) *Zip Pocket ① 390 × 190 × 60 (front) ② 390 × 190 (back)
Cross bag	M38S-019-SB M38S-019-GR		230 × 260 × 55 *Zip Pocket ① 230 × 160 × 45 (front) *Open Pocket ① 230 × 160 (back)



ESD Cleanroom Bags (TPU type)



Features

- Surface resistance: 10e4~10e6 ohm
- TPU (Thermoplastic Polyurethane) material
- Excellent durability and elasticity
- Wear, cold, chemical and oil resistance
- Odorless
- ECO friendly and no harmful to human body
- Expandable (backpack and cross bag)
- Adjustable shoulder straps
- Suitable for Cleanroom and ESD environments
- See-through bag
- Name card holder

Style	Item Code	Pictures	Dimensions (mm)
Backpack	M38S-012-TP		310 × 430 × 100 (160) *expandable (60 mm) *Zip Pocket ① 310 × 310 × 50 ② 310 × 190
Cross bag	M38S-015-TP		390 × 290 × 80 (140) *expandable (60 mm) *Zip Pocket ① 390 × 190 × 60 (front) ② 390 × 190 (back)
	M38S-018-TP		230 × 260 × 55 *Zip Pocket ① 230 × 160 × 45 (front) *Open Pocket ① 230 × 160 (back)
Pouch	M38S-007-HZ-S M38S-007-HZ-M M38S-007-HZ-L		S: 215 × 155 M: 315 × 215 L: 330 × 245



Cleanroom LDPE Bag

Item Code M20P-000

- Clean material up to class 10 compatible
- Heat sealable
- FDA approved grades are available
- IPA resistant printings are available



Cleanroom Nylon Bag

Item Code M24P-000

- Excellent puncture resistant and tensile strength
- Heat sealable
- High transparency



Cleanroom Aluminium Bag

Item Code M25P-000

- Excellent moisture and oxygen barrier
- Ideal for vacuum packing



Cleanroom Static Shielding Bag

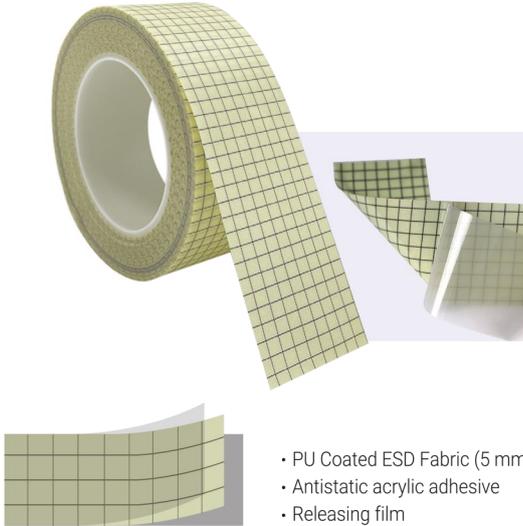
Item Code M26P-000

- Excellent ESD shielding properties



- Manufactured in class 100 cleanroom
- Ultra-clean materials
- Low LPC, IC, NVR & Outgassing

ESD Cleanroom Fabric Tape



- PU Coated ESD Fabric (5 mm grid)
- Antistatic acrylic adhesive
- Releasing film

Features

- ESD properties on both sides
- No particle generation
- No residue
- The thin fabric film makes it extremely flexible
- Easy to apply on any surface

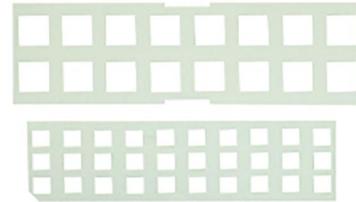
Applications

- To cover work table for ESD safe and protection of the product
- To use it in controlled environment

Item Code	M43T-001-LY	M43T-002-LY
Available Sizes	40 mm × 30 m	100 mm × 30 m
Thickness	0.13 mm	
Adhesive Strength	1000 ± 100 gf / 25 mm	
Material	PU coated ESD fabric with antistatic acrylic adhesive and PET release film	
Surface Resistance	10e6 ~ 10e7 ohm, Back: 10e7 ~ 10e8 ohm	
Packing	50 rolls/carton	

Lead Frame Separator

Item Code	M22S-000
Material	Clean Paper, PP
Weight	250 g



M22S-000

Interleaf



Cleanroom Paper



Tyvek Paper

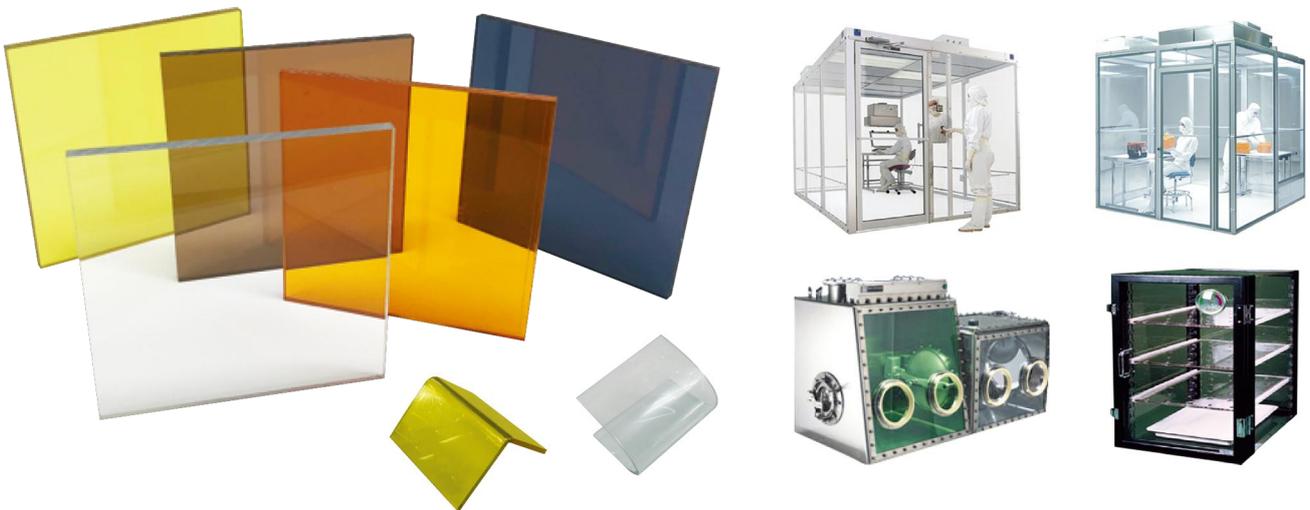


Cleanroom Paper/PP

Item Code	Material	Shape	Size (inch, mm)	Weight (g)	Thickness (μm,+/-3)	Application
M09S-001	Cleanroom Paper	Circle	6" (dia.)	72	91	Wafer
M09S-002	Cleanroom Paper	Circle	8" (dia.)	72	91	Wafer
M09S-006	Tyvek Paper	Circle	8" (dia.)	72	191	Wafer
M09S-003	Cleanroom Paper	Circle	12" (dia.)	72	91	Wafer
M09S-009	Cleanroom Paper	Tetragon	55×210	72	91	PCB
M09S-010	Cleanroom Paper	Tetragon	120×120	72	91	PCB
M09S-011	Cleanroom Paper	Tetragon	123×123	72	91	PCB
M09S-014	Cleanroom Paper	Tetragon	420×510	72	91	PCB
M09S-012	Cleanroom Paper	Octagon	156×156	72	91	Solar glass
M09S-013	Cleanroom Paper	Tetragon	182×182	72	91	Solar glass
M09S-016	Cleanroom Paper	Tetragon	210×297	72	91	Printed form
M09S-000	PP	Tetragon	on demand	95		High-end

Static Dissipative Plates

Polstar Static Dissipative Plate (PSDP) features a special ESD hard-coating on both surfaces, providing a semi-permanent surface resistance of $<10e9$ ohms, effectively eliminating static electricity. PSDP is ideal for rapidly dissipating static charges without causing harmful arcing on the surface of vulnerable components. PSDP meets electrical and optical requirements while offering superior abrasion resistance, a non-scratchable surface, and chemical resistance. PSDP is available in Polycarbonate (for high-temperature performance, fire resistance, and outstanding impact resistance), PMMA (offering high pencil hardness and excellent clarity), PVC (with excellent chemical resistance), and Aluminium Composite Panels, catering to a wide range of applications across various industries. The newly designed PSDP series is also available for specialized bending and bonding applications (please note that Polycarbonate is not suitable for bonding) without developing surface cracks and without altering surface resistance after the bending process.



Specifications & Product Information

Properties	Testing Item	Unit	PC (Polycarbonate) M03Y-000	PMMA (Acrylic) M01Y-000	PVC (Polyvinyl Chloride) M02Y-000	AL (Aluminium) M04Y-000	Test Method
Physical Properties	Specific Gravity	g/cm ²	1.2	1.19	1.4	1.38	ASTM D-792
	Water Absorption	%	0.1	0.3	0.01	-	ASTM D-570
	Pencil Hardness	-	HB	3H~5H	3H	3H~5H	JIS K-5400
	Piece Close Adhesion Strength	-	100/100	100/100	100/100	100/100	JIS K-5400
Mechanical Properties	Tensile Strength	Mpa (kgf/cm ²)	58.8~68.6 600~700	560~670	650	8.5	ASTM D-638
	Elongation	%	90~140	2.0~7.0	20	27	ASTM D-638
	Flexural Strength	kgf/cm ²	920~980	840~1200	920	1344	ASTM D-790
	Flexural Modulus of Elasticity	kgf/cm ²	2500	2.6×10 ⁴ ~3.2×10 ⁴	2.6×10 ⁴	3746	ASTM D-256
	Compressive Strength	Jkgf/cm ²	-	-	1142	-	ASTM D-256
	Izod Shock Strength	J/M (kgf cm/cm ²)	6	2	6	-	ASTM D-256
Thermal Properties	Burning Resistance	-	Incombustibility V-0 ~ V2	Incombustibility HB	Incombustibility V-0	Incombustibility V-0	UL-94
	Coefficient of Linear Thermal Expansion	X10 ⁻⁵ in/in°F	3.8	-	-	-	ASTM D-696
	Heat Deflection Temp.	°F/°C at 264psi	270/132	-	-	-	ASTM D-648
	Vicat Softening Temp.	°F/°C	310/154	-	-	-	ASTM D-3418
	Max Operation Temp.	°F/°C	170/77	-	-	-	-
	Thermal Conductivity	BTU-in/ft ² -hr-°F X10 ⁻⁴ cal/in/cm-sec-°F	1.3 4.5	-	-	-	ASTM D-177
Electrical Properties	Surface Resistance	ohm	< 10e9	< 10e9	< 10e9	< 10e9	ASTM D-257
	Static Decay Time	Sec	Below 0.1	Below 0.1	Below 0.1	Below 0.1	MIL B-81705 B
Size	-	mm	1,000 × 2,000 / 1,200 × 2,400				
Thickness	-	mm	2.0 / 3.0 / 4.0 / 5.0 / 6.0 / 8.0 / 10.0				
Color	-	Clear transparent, Yellow, Orange, Blue, Brown, Smoke, Opaque in black or Ivory					
Remark	Other sizes, thicknesses and colors are also available on request.						

Maintenance, Handling, Caution

- Recommendable storage conditions: less than 30 °C, RH 40 ~ 60%.
- To avoid scratches on the surface, remove the protective film after PSDP has been machined.
- It is recommendable to have trials with test specimen to determine optimum settings before cutting or modification.
- Static dissipative coating must be removed from the surface to be glued.
- Isopropyl Alcohol (IPA) or alcohol-based cleaning liquid is recommendable for cleaning.
- PSDP is not required to be cleaned with antistatic plastic cleaners.
- Loss of static dissipative performance will occur if excess scratching is concentrated in a particular area.
- If PSDP is treated with a polishing machine, the performance of static dissipative coating cannot be guaranteed.

Medium Filter (Box type)



Item Code	M23K-001
Media	Micro Glass Fiber
Frame	Particle Board
Separator	Aluminium
Sealant	PU Resin
Gasket	Neoprene Sponge

Medium Filter (Header type)



Item Code	M23K-200
Media	Micro Glass Fiber
Frame	Galvanized Steel
Separator	Aluminium
Sealant	PU Resin
Gasket	Neoprene Sponge

Box type Size (mm)			Head type Size (mm)			Pressure Drop (mmAq)		Air Volume (CMM)		Capture Efficiency
W	L	D	W	L	D	Initial	Final	General	Various	0.5 μ m, %
610	305	150	594	287	150	17	30	14	21	95
610	610	150	594	594	28			42		
610	305	292	594	287	28			42		
610	610	292	594	594	56			84		
610	305	150	594	287	150	15	30	14	21	85
610	610	150	594	594	28			42		
610	305	292	594	287	28			42		
610	610	292	594	594	56			84		
610	305	150	594	287	150	13	30	14	21	65
610	610	150	594	594	28			42		
610	305	292	594	287	28			42		
610	610	292	594	594	56			84		

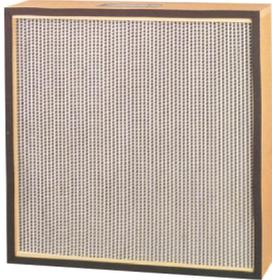
HEPA Filter (Mini Pleat type)



Item Code	M24K-002
Media	Micro Glass Fiber
Frame	Particle Board. Plywood. AL
Separator	-
Sealant	Polyurethane (PU) Resin
Gasket	Neoprene Sponge

Head type Size (mm)			Pressure Drop (mmAq)		Air Volume	Capture Efficiency
W	L	D	Initial	Final	CMM	0.3 μ m, %
305	305	75	25	50	4	99.97
610	305	75			7	
610	610	75			17	
610	762	75			22	
610	915	75			26	
610	1220	75			32	

HEPA Filter (Standard)



Item Code	M24K-001
Media	Micro Glass Fiber
Frame	Particle Board. Plywood. AL
Separator	AL. Kraft Paper
Sealant	Polyurethane (PU) Resin
Gasket	Neoprene Sponge

Head type Size (mm)			Pressure Drop (mmAq)		Air Volume	Capture Efficiency
W	L	D	Initial	Final	CMM	0.3 μ m, %
305	305	150	25	50	4	99.97
610	305	150			7	
610	610	150			17	
610	762	150			22	
610	915	150			26	
610	1220	150			32	
305	305	292			7	
610	305	292			17	
610	610	292			32	

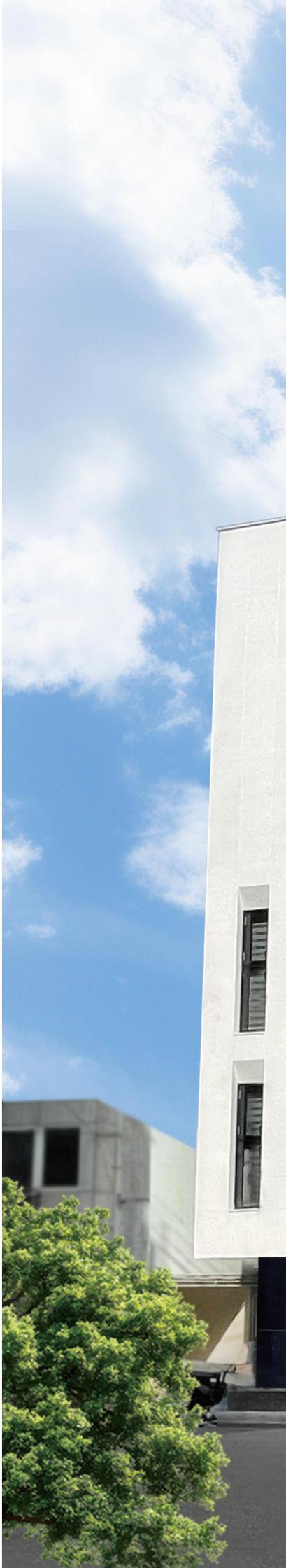
ULPA Filter (Standard)



Item Code	M25K-001
Media	Micro Glass Fiber
Frame	Particle Board. Plywood. AL
Separator	AL. Kraft Paper
Sealant	Polyurethane (PU) Resin
Gasket	Neoprene Sponge

Head type Size (mm)			Pressure Drop (mmAq)		Air Volume	Capture Efficiency
W	L	D	Initial	Final	CMM	0.1~0.12 μ m, %
610	610	75	25	50	11	99.99997
610	915	75			16	
610	1220	75			18	
610	610	150			11	
610	762	150			13	
610	915	150			16	
610	1220	150			22	
610	610	75			15	
610	915	75			21	
610	1220	75			24	
610	610	150			25	
610	762	150			32	
610	915	150			38	
610	1220	150			42	

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1996







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