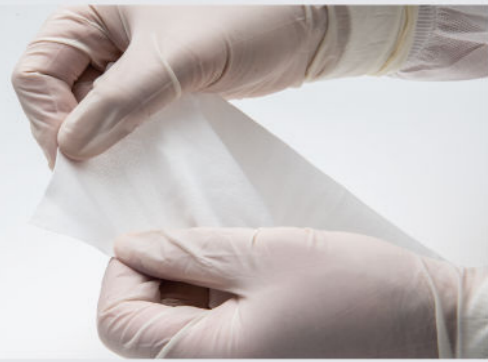




one stop solutions for CLEANROOM & DISINFECTIONS



SEPRO ECO CLEAN CO., LTD
2nd Floor, S20 The Peak (M8), Midtown Phu My Hung, D7, HCMC
www.sepro.vn | Fin@sepro.vn | (84 28) 2218 1487



About Us

Introduction

Welcome to **SEPRO**, a trusted name in the cleanroom industry for over a decade. Since our establishment in **2010**, we have been committed to providing high-quality **cleanroom consumables and disinfection chemicals** to ensure the utmost cleanliness and safety in controlled environments.

Our Philosophy

At **SEPRO**, we believe in forging lasting partnerships. Our goal is to be more than just a supplier, we aim to be **your trusted collaborator** in maintaining the integrity of your cleanroom environment

Our Concept

"Nothing is best, we can offer the better".

In order to make things being possibility, Listening & understanding customer well is a must, and most important is we always keep upgrading our ability to optimize customer's benefit by supplying reliable products, Just-in-time delivery, supply chain management effectively.



ONE STOP SOLUTIONS FOR CLEANROOM & DISINFECTIONS

QUANTUMTEC CLEANROOM DISINFECTIONS



QT 70 IPA	P.3	QT Detergent	P.8
QT QUAT	P.4	QT 360	P.9
QT Peroxy	P.5	QT Sporicide	P.10
QT Chlorite	P.6	QT 361	P.11
QT WFI	P.7	Packing	P.12

CLEANING SOLUTIONS



Cleanroom Wiper



Cleanroom Swab



Mopping System



Absorbent Materials



Sticky Products Series

PPE & LAUNDRY SERVICES



Cleanroom Garment



Cleanroom Gloves



Cleanroom Laundry



Cleanroom Goggles

CLEANROOM ENGINEERING



Metal Processing



Cleanroom Trolley



Screen Printing for PCB Manufacturing



Technical Plastic Processing



Filtration Solution

QuantumTec is a US-based company with manufacturing facilities located in Malaysia. Established in 2018, QT set out to be the leading manufacturer and supplier of **Cleanroom Disinfection Chemicals**.

Since 2023, **SEPRO** has been honored to serve as the **Official Distributor of PMA Quantumtec** in the Vietnam market

QT 70 IPA & QT 70 SDA

QT 70 IPA Contains 70% USP Isopropyl alcohol and 30% WFI
 QT 70 SDA Contains 70% Specially Denatured Alcohol and 30% WFI

Benefits Removes most surface contaminants.
 Low residue upon evaporating/no rinsing.
 Pre-attached and ready to use trigger sprayer.
 No handling and assembly of spray head.
 No mixing, filtration, sterilization, processing and QC expense.

Features 0.22 micron filtered
 Gamma irradiated to SAL of 10⁻⁶ at 25-45kGy
 Double-bagged and double sealed polybag case liner
 Lot specific records for each shipment
 Certificate of Irradiation, Certificate of Analysis
 Indelible lot & expiry markings on each container

COMPATIBILITY & CORROSION STUDY OF QT 70 IPA

Material	Beginning Weight	Ending Weight	% Change Weight	% Change Thickness	Visual Changes
316 Stainless Steel	224.2	225.1	0	0	None
Galvanized Steel	25.6	25.7	0	0	None
Aluminum	28.2	28.3	0	0	None
Polypropylene	23.9	24.6	0.03	0	None
PVC	34.6	34.6	0	0	None
Polycarbonate	61.2	68.1	0.11	0.35	Opaque colour with slimy film
Vinyl Sheeting	10	10.4	0.04	0.02	None
Buna Rubber	32.7	32.5	0	0	None
Laminate Flooring	11.9	12.1	0.02	0.01	None

Applications

Surface cleaning, Equipment cleaning.
 Gloved hand cleaning in sterile areas.
 Wipe down for pass through to controlled environments.

QT QUATERNARY AMMONIUM (QT QUAT)

QT QUAT is a 5th generation quaternary ammonium solution for use in pharmaceutical, biotechnology, medical device, healthcare and medical industries. QT QUAT is a broad-spectrum disinfectant, sanitizer, germicidal detergent, cleaner, deodorizer, yeasticidal and virucide for use against bacteria, viruses and yeast. QT QUAT is for use in non-food contact areas.

QT QUAT is phosphate free, pH neutral and non-corrosive provided it is used according to dilution (1:256 ½ Ounce / Gallon of water or equivalent dilution).

QT QUAT prevents corrosion, creates pH balance and easily rinses free from product surfaces.

Features Clear, colourless to straw coloured liquid
 Cleans, deodorize and disinfect in one step
 Non-acidic, non-abrasive cleaner and disinfectant
 1.01 Specific gravity, Excellent solubility & rinsing
 Moderate foaming, Phosphate free, pH 6.0 to 8.0 @ 1%
 Gamma irradiated to a SAL of 10⁻⁶ at 25-45kGy
 Double-bagged and double sealed polybag case liner (Sterile)
 Lot specific records for each shipment
 Certificate of Irradiation, Certificate of Analysis
 Indelible lot & expiry markings on each container

Benefits Removes most surface contaminants
 Low residue upon evaporating/no rinsing



Applications

Surface cleaning
 Equipment cleaning



QT PEROXY PURE (3%, 6% Hydrogen Peroxide Solution)

QT PEROXY PURE is a 3% or 6% Hydrogen Peroxide Solution manufactured using USP water for injection (WFI). QT Peroxy Pure is specifically formulated for removing residues and cleaning hard non-porous surfaces in clean rooms or other critical environments including floors, walls, equipment, carts, and tables. Bottles are filled and sealed aseptically in an ISO class 5 environment.

- Features**
- Contains 3%, 6% Hydrogen Peroxide with WFI
 - 0.22 micron filtered, Aseptically filled and sealed
 - Biodegradable – completely decomposing into water and oxygen
 - No VOCs – reduces VOC regulatory and compliance concerns
 - Double-bagged and double sealed polybag case liner
 - Lot specific records for each shipment
 - Certificate of Analysis
 - Indelible lot & expiry markings on each container

- Benefits**
- Removes surface contaminants
 - Low residue upon evaporating/no rinsing
 - Pre-attached and ready to use trigger sprayer
 - Convenient ready-to-use solutions require no mixing or activating Applications



Applications

Surface cleaning, walls, floors, tables.
Equipment cleaning.

QT CHLORITE (0.52%, 5.25% Sodium Hypochlorite Solution)

QT CHLORITE is a 0.52% or 5.25% Sodium Hypochlorite solution manufactured using USP water for injection (WFI). QT Chlorite is specifically formulated for residue removal and cleaning hard non-porous surfaces in clean rooms or other critical environments including, floors, walls, equipment, carts and tables. Bottles are filled and sealed aseptically in an ISO class 5 environment.

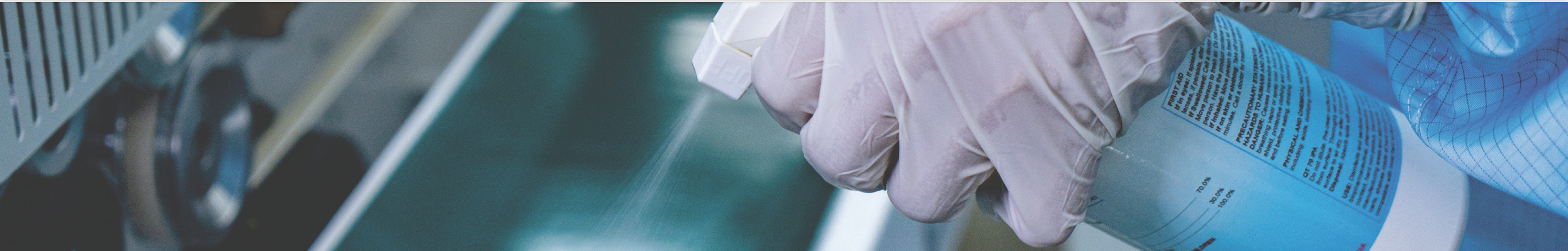
- Features**
- Contains 5.25%, 0.52% Sodium Hypochlorite with WFI, 0.22 micron filtered, 0.22 micron filtered, Aseptically filled and sealed
 - Double-bagged and double sealed polybag case liner
 - Lot specific records for each shipment
 - Certificate of Analysis
 - Indelible lot & expiry markings on each container

- Benefits**
- Removes surface contaminants
 - Low residue upon evaporating/no rinsing
 - Pre-attached and ready to use trigger sprayer
 - Suitable for use in aseptic core (ISO Class 5) areas



Applications

Surface cleaning, walls, floors, tables.
Equipment cleaning.



QT WATER FOR INJECTION (QT WFI)

QT WFI is produced in an ISO 9001, ISO 13485 certified and FDA registered facility using potable water which is subjected to extensive purification with 2 reverse osmosis passes and final filtration of 0.1µm. This process provides water quality that meets the United States Pharmacopeia (USP) specifications for WFI.

QT WFI is additionally filtered at 0.22 micron during filling then double-bagged in an ISO 7 classified environment, and terminally sterilized by gamma irradiation to a 10⁻⁶ Sterility Assurance Level (SAL).



Benefits Removes surface contaminants.
 Low residue upon evaporating/no rinsing.
 Pre-attached and ready to use trigger sprayer.
 Suitable for use in aseptic core (ISO Class 5) areas.

Applications

QT WFI is intended for use as a diluent for disinfectants, sanitizers or cleaners which are applied on hard non-porous surfaces in cleanrooms or other critical environments such as floors, walls, counters, tools, carts and other equipment.

QT WFI can also be used for rinsing of hard non-porous surfaces.

Features Contains 5.25% Sodium Hypochlorite with WFI
 0.22 micron filtered, Aseptically filled and sealed
 Double-bagged and double sealed polybag case liner
 Lot specific records for each shipment
 Certificate of Analysis.
 Indelible lot & expiry markings on each container.

QT CONCENTRATED DETERGENT (QT DETERGENT)

QT DETERGENT is effective at removing residues of disinfecting agents when diluted at 1:128 (1 oz per 1 gallon) of hard or soft water (400 ppm hard as CaCO). This formulation is compatible with non-porous surfaces and is able to restore surfaces to its original form which assures the future decontamination penetrates the surface.

QT DETERGENT effectively removes residues left by Sanitizers, Sodium Hypochlorite, Disinfectants and is available in both Sterile & Non-Sterile.



Applications

QT Detergent is a versatile low foam wetting agent relevant for use on floors, walls, ceilings and hard surfaces. Formulated to cater to the Pharmaceutical, Biotechnology, Healthcare and Lab Research Operations.

Features Filtered Sterility tested according to current USP compendium.
 Gamma irradiated to SAL of 10⁻⁶ at 25-45kGy.
 Double-bagged and double sealed polybag case liner.
 Lot specific records for each shipment
 Certificate of Irradiation, Certificate of Analysis
 Indelible lot & expiry markings on each container



QT 360 CIP NON-FOAMING ALKALINE CLEANER

QT 360 Non-Foaming Alkaline Cleaner is a non-foaming alkaline liquid cleaner, formulated to take on the rigorous cleaning demands presented in the pharmaceutical, life science and biotech industries.

QT 360 was designed for use in Clean-In-Place systems, pressure washers and automatic washing equipment at operating temperatures of 50oC to 80oC.

Applications

QT 360 is effective in removing a wide variety of contaminants from stainless steel, glass, plastic and other hard surfaces.

QT 360 is hard water tolerant and clean-rinsing leaving surfaces and equipment residue free making it a superior cleaner for critical cleaning applications.



QT 361 CIP NON-FOAMING ALKALINE CLEANER

QT 361 NON-FOAMING ACIDIC CLEANER is a highly effective acidic cleaner formulated for the rigorous cleaning demands presented in the pharmaceutical, life science and biotech industries.

Applications

QT 361 is non-foaming, non-fuming, odourless and effective at removing a wide range of residues including inorganic soils, scales and minerals.

QT 361 is safe to use on many hard surfaces such as stainless steel, porcelain, ceramic, and terrazzo tiles.

QT 361 is ideal for CIP cleaning where foam is not desired.

QT SPORICIDE

- Features**
- Advanced peracetic acid/hydrogen peroxide blend
 - Dilute from concentrate at a 1% v/v dilution with purified water
 - Filtered at 0.2 microns, Disinfects and cleans in one operation
 - Designed for the sterilization of manufacturing, packaging and filling equipment in aseptic processes
 - Product may be used as a sterilant with a contact time of 11 hours or as a Disinfectant with a contact time of 10 minutes
 - Double-bagged and double sealed polybag case liner (Sterile)
 - Lot specific records for each shipment
 - Certificate of Analysis
 - Indelible lot & expiry markings on each container

Applications

QT SPORICIDE was developed for use as a sterilant broad spectrum disinfectant for surfaces and equipment for industries such as pharmaceutical, biotechnology, medical products manufacturing & research facilities.

QT SPORICIDE is a peracetic acid and hydrogen peroxide solution which is a chemistry that provides fast, effective microbial control including spores.

QT SPORICIDE is a Sterilant- Virucide, Disinfectant- Sanitizer that acts as a booster for alkaline detergents.

QT SPORICIDE is formulated to be used at a 1% v/v dilution (used as a broad-spectrum disinfectant and sterilant).

QT SPORICIDE is recommended for use on pre-cleaned surfaces and equipment



Since 2023, **SEPRO** has been honored to serve as the

Official Distributor of PMA Quantumtec

in the Vietnam market



QT BAC-T-CLEAR HAND SANITIZER

QT 361 QT BAC-T-CLEAR ANTIBACTERIAL HAND SANITIZER is alcohol-free, triclosan-free, and kills 99.99% of bacteria and viruses while soothing and promoting moisture retention in delicate hand tissue.



Why Alcohol-Free? Alcohol-based hand sanitizers require reapplication with each exposure to germs and can over dry the skin, trapping germs in dead skin cells. This occurs because alcohol strips away the oils in your skin that retain moisture. BAC-T-CLEAR alcohol-free sanitizer provides extended protection against germs.

Extended Protection Alcohol-based hand sanitizers offer zero protection against germs, bacteria and viruses once the product has dried on your hands. BAC-T-CLEAR Hand Sanitizer continues to reduce contamination for an extended period after application.

Non-Irritating Alcohol-based hand sanitizer require reapplication with each exposure to germs and can over dehydrate dry the skin and strip away the natural oils in your hands, skin surface that help retain moisture. This drying can lead to cracking and even dermatitis.

Safe For Children The active ingredient, BZK (Benzalkonium Chloride), is an FDA Monograph drug and has been widely used in the healthcare industry for more than 60 years in "leave-on" anti-bacterial skin care products. It is safe for children, making it ideal for schools, daycares and anywhere you want to kill germs! (Any environment where germs need to be eliminated.)

Effective – Kills 99.99% Of Germs BAC-T-CLEAR Antibacterial Hand Sanitizer kills 99.99% of bacteria and viruses, including Staph., MRSA, E.coli and Salmonella without drying or irritating skin.

PRODUCT PACKING

Chemical	Bag In Bottle Trigger Spray		Non Bag In Bottle Trigger Spray		Bottle with Screw Cap					(BOV) Aerosol Sprays
	500 ml	1 Litre	500 ml	1 Litre	3.785 litres	5 Litres	10 litres	20 litres	208 litres	325 ml
QT 70 IPA	x	x	x	x	x					x
QT WFI						x	x			
QT SDA	x	x	x	x	x					x
QT PEROXY PURE	x	x	x	x	x					
QT CHLORITE	x	x	x	x	x					
QT DETERGENT					x					x
QT QUAT					x					
QT SPORICIDE					x					
QT BAC-T-CLEAR						x				
QT CIP					x			x	x	



SEPRO™ | CLEANROOM WIPERS

CLEANROOM WIPES are indeed essential for maintaining cleanliness and controlling contamination in sensitive environments. SEPRO's provision of dry, pre-saturated, and validated sterile wipes offers a comprehensive solution for various industries where stringent cleanliness standards are necessary.

WIPER SUBSTRATES

- Engineered Fabric / Non-Woven
- Cotton
- Polyester
- Nylon
- Microfiber
- Pre-Saturated

WIPER SUBSTRATE PERFORMANCE

	Poly /Cellulose	Coton	Nylon	Microfiber	Polyester
Cleanliness	●●●	●●	●●●●	●●●●●	●●●●●
Durability	●	●●●●	●●●●	●●●	●●
Water Absorption	●●●	●●●●	-	-	-
Solvents Absorption	●●●	●●●●	●●●	●●●	●●●
Chemical Resistance	●●●	●●●	●●●	●●●	●●●
Heat Resistance	-	●●●	●	●	-
Cost	Low	High	High	High	Med

- Poor ● Good ●● Better ●●● Excellent ●●●● Best

IMPORTANT ATTRIBUTES OF WIPERS

- Substrate
- Edge treatment
- Size
- Durability
- Absorbency
- Packaging

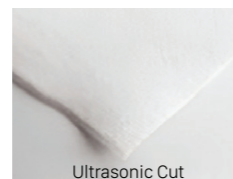
WIPER EDGE TYPES



Regular Cut
Sharp knife is used to cut wipes into desired sizes. This cut type gives a cost-effective wipe for your general applications



Laser Cut
Laser as medium is used for cutting edges. Wipes with this cut-type have lower particle and fiber release than regular cut wipes



Ultrasonic Cut
It uses an ultrasonic to cut the wiper. It cuts with more precision which results to softer and much less particle and fiber release than Laser cut



Hot Knife Cut
Hot iron wire is used to cut the wiper edges which can totally lock the edges for extremely low fiber and particle release



Ultrasonic Sealed
Border Using heat and pressure, a border is created on the wiper's edges and sealing it for optimum fiber and particle retention.

SEPRO™ | POLYESTER WIPER

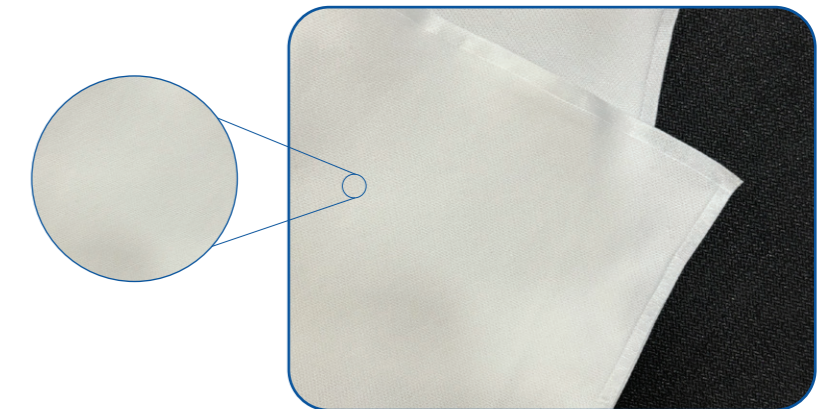
Polyester wiper is a double knit 100% continuous-filament polyester. All four edges are laser cut and sealed to prevent particle and fiber release.

Applications

- Semiconductor
- TFT-LCD
- Cell phone module line
- PCB Industry
- Cleaning equipment

Features

- Economical price
- Excellent absorptive power
- Double packed in Class 100 Cleanroom
- Low particle generation and extractable



P/N	DESCRIPTION	PCS./BAG	BAGS/CASE
WP-PL-12	Cleanroom 100% polyester wiper 140gsm, Laser- cut Size: 12 x 12"	150	10
WP-PL-9	Cleanroom 100% polyester wiper 140gsm, Laser- cut Size: 9" x 9"	150	10
WP-PL-6	Cleanroom 100% polyester wiper 140gsm, Laser- cut Size: 6" x 6"	300	10
WP-PL-4	Cleanroom 100% polyester wiper 140gsm, Laser- cut Size: 4" x 4"	600	10



SEPRO™ | MICROFIBER WIPER

MICRO FIBER WIPER is constructed from continuous filament micro denier polyester. These strong filaments have a high yarn-to-dust contact surface area, ensuring excellent wiping efficiency. Furthermore, its wedge-shaped cross section acts as squeegees for superior contact with surface to be cleaned, generating excellent absorbency and particulate entrapment.

Applications

- Suitable for class 100 – 1,000 cleanrooms
- Cleaning of lens and sensitive surfaces in optical and display industries
- Work well with alcohol and solvents

- Features**
- 80% polyester/20% nylon microfiber blend. Double knit
 - Good absorbency and wiping efficiency
 - High Chemical and abrasion resistant
 - Ideal for cleaning scratch sensitive surfaces
 - Solvent safe, double bagged and vacuum cleanroom packed
 - Lot to lot traceable, Pre-wet and sterile versions available

P/N	DESCRIPTION	PCS./BAG	BAGS/CASE
WP-MF - 12	Cleanroom micro-fiber wiper 68gsm, Laser-cut Size: 12" x 12"	100	10
WP-MF - 9	Cleanroom micro-fiber wiper 68gsm, Laser-cut Size: 9" x 9"	100	10
WP-MF - 6	Cleanroom micro-fiber wiper 68gsm, Laser-cut Size: 6" x 6"	200	20
WP-MF - 4	Cleanroom micro-fiber wiper 68gsm, Laser-cut Size: 4" x 4"	200	20
WP-MF - 5CM	Cleanroom micro-fiber wiper 68gsm, Laser-cut Size: 5 x 5 cm	2000	10
WP-MF - 7CM	Cleanroom micro-fiber wiper 68gsm, Laser-cut Size: 7 x 7 cm	2000	10



SEPRO™ | NONWOVEN CP WIPER

THE NONWOVEN CELLULOSE POLYESTER is a hydroentangled 55% cellulose and 45% polyester. Non woven wiper is designed for applications that require the unique combination of superior strength and exceptional sorbency. This wiper is a perfect wiping material for spill control and general purpose wiping.

Applications

- Recommended for use in class 1000 – 10,000 cleanroom environment
- General purpose wiping and polishing of surface areas, including optics
- Excellent for use in Pharmaceutical, Biotech & medical device manufacturing markets, Steam autoclavable for use in aseptic areas
- Designed for removal of strong acids and chemical spills
- Excellent for cleaning and polishing delicate equipment
- Ideal for wiping scratch-sensitive surfaces in ISO Class 6 - 8 cleanrooms

- Features**
- Made of hydroentangled 55% cellulose and 45% polyester
 - Cleanroom processed and packaged to reduce particles
 - Smooth, highly sorbent and durable, Pre-wet and sterile versions available
 - Works well with IPA and other solvents, Low levels of particles and extractables
 - Combines the strength of polyester with the absorbency of long cellulose fibers
 - Lot to lot traceable

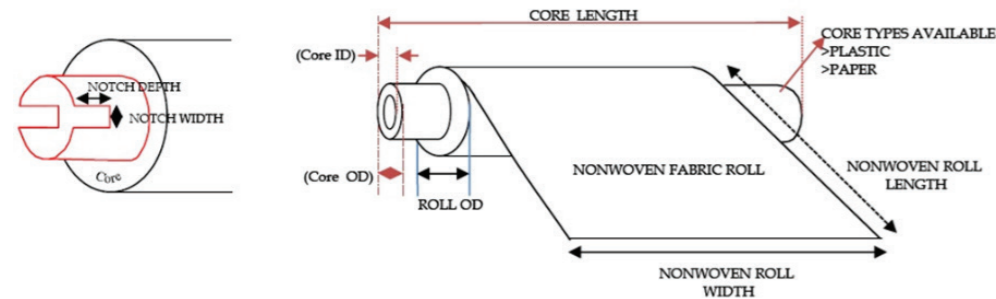
P/N	DESCRIPTION	PCS./BAG	BAGS/CASE
WP- NW- CP- 12	Cleanroom non-woven cell/poly wiper 68gsm; Size: 12"X12"	150	10
WP- NW- CP- 9	Cleanroom non-woven cell/poly wiper 68gsm; Size: 9" x 9"	300	12
WP- NW- CP- 6	Cleanroom non-woven cell/poly wiper 68gsm; Size: 6" x 6"	600	10
WP- NW- CP- 4	Cleanroom non-woven cell/poly wiper 68gsm; Size: 4" x 4"	1200	10





SEPRO™ | SMT ROLLER

SEPRO SMT roller wipers are made of a composite of polyester/cellulose, polyester/nylon, or polyester/rayon, or 100% rayon fiber, exhibiting low lint with high absorbency and wiping ability. Width and length of our SMT roller wipers are to be custom-made to suit your specific needs. This material is perfect for spill control, general purpose wiping and wiping of understencil for every screen printers brand names and fiber release.



Notch	Number of Notch
	Notch Width
	Notch Depth
Core	Core Material (Plastic/Paper)
	Core ID
	Core OD
	Core Length
Wiper	Wipes Roll width
	Wipes Roll length
	Wipes weight

Applications

SEPRO Roll wipes are used to clean bottom of stencil of the Screen Printer machine. Its application in SMT line in Electronic Factories.

SMT Roll wipes normally are customized making according to which customer Screen Printer using (e.g Panasonic, Yamaha, GKG, MPM, DEK...). We used Material lint free wipes that are low lint levels, an ability to clean a variety of apertures, rapid dispense, effective wicking, and ongoing productivity

Features Combines the strength of polyester with the absorbency of long cellulose fibers

Smooth, highly sorbent and durable, Works well with IPA and other solvents

Low levels of particles and extractables, Lot to lot traceable

Suitable for almost Screen Printer Machine e. g Panasonic, Yamaha, GKG, MPM, DEK, ...

SEPRO™ | M1 & M3 RAYON WIPER

NONWOVEN M1 & M3 WIPER is made of 100% Rayon and is extremely absorbent and fast at picking up liquid spills

Applications

Ideal for cleaning high temperature process equipment and sensitive electronic equipment

Used extensively in the compact disk and magnetic tape industries

Multi-purpose wipers designed for use in ISO Class 6 - 8 cleanrooms

Wiping of catheters, heart valves, and other biomedical devices

Cleaning of glass and plastic chambers

Steam autoclavable for use in aseptic areas

Features Cleanroom processed and packaged to reduce particles

Made of 100% Rayon fabric and quarterfolded

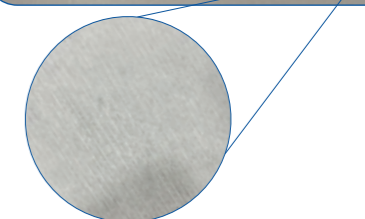
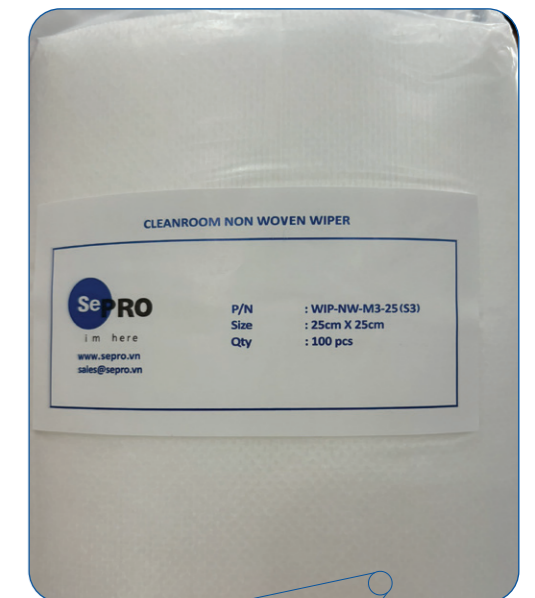
Extremely absorbent

Heat resistant

Lot to lot traceable

Pre-wet and sterile versions available

P/N	DESCRIPTION	PCS./BAG	BAGS/CASE
WIP-NW-RY-15	Non-woven M1 wiper 40gsm; Size: 15cm x 15cm	150	40
WIP-NW-RY-25	Non-Woven M3 Wiper 40gsm; Size: 25cm x 25 cm	100	30



SEPRO™ | ESD WIPER

ESD POLYESTER WIPER is made of 100% continuous polyester filament with conductive yarn designed to dissipate electrical charge and control ESD.

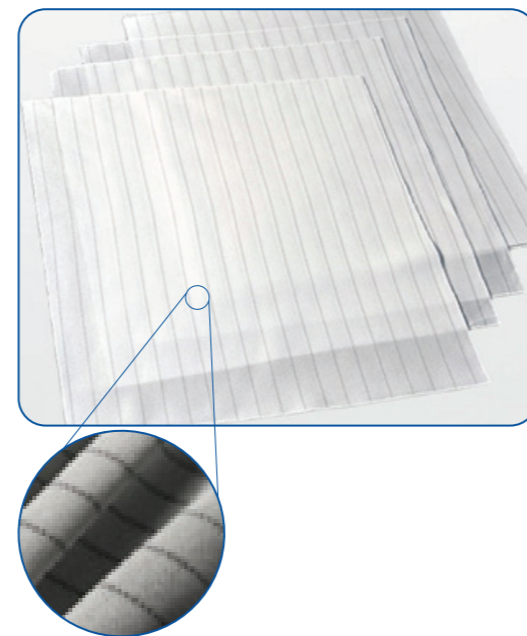
It is ideal for wiping exterior areas of products in ESD-sensitive areas as well as cleaning of process tools and other equipment

Applications

- Suitable for class 100 – 1,000 cleanrooms
- Wiping products in ESD-sensitive areas.
- Cleaning of surfaces to control submicron particles, fibers, and chemical residue.
- Ideal for Optical, Lens, Electronic, Semiconductor, Medical Device Manufacturing

- Features**
- 100% continuous filament polyester Double knit
 - Surface Resistivity is 1x10⁸-1x10¹⁰ ohms.
 - Good absorbency and wiping efficiency
 - Resists abrasion under rigorous use
 - Low levels of particles and extractables, Lot to lot traceable
 - Solvent safe, double bagged and vacuum cleanroom packed
 - Pre-wet and sterile versions available
 - Available color: black & white

P/N	DESCRIPTION	PCS./BAG	BAGS/CASE
WP-PL-ESD-12	Cleanroom 100% polyester wiper-ESD 140gms, Laser-cut Size: 12" x 12"	150	10
WP-PL-ESD-9	Cleanroom 100% polyester wiper-ESD 140gsm, Laser-cut Size: 9" x 9"	150	10



SEPRO™ | PVA SPONGE

PVA SPONGE is hydrophilic with an average porosity of 85% - 95%.

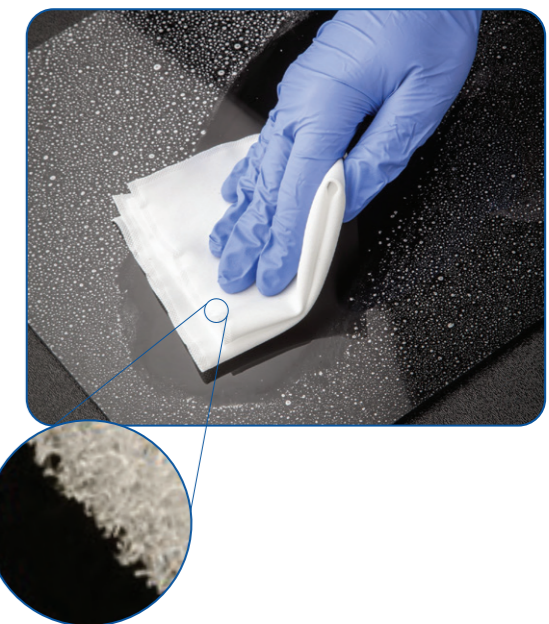
This delivers an exceptionally high volume and speed of absorption.

Elasticity and tensile strength properties help provide durability and allow the material to last much longer than other materials even under the most difficult conditions.

Applications

- Suitable for class 100 – 1,000 cleanrooms
- Application in electronic components, food products, hospitals, etc.), factories, electronic/optical devices, workbenches, etc

- Features**
- Constructed from white PVA (Polyvinyl Alcohol)
 - Absorbs 25 times its weight
 - Broad chemical resistance
 - Ultra-clean
 - Holds up to strong disinfectants and steam sterilization
 - Launderable
 - PVA sponge can be used safely with most chemicals including acids, bases and organic solvents in the pH range of 2 - 12. Heat resistant to 80 degrees C (wet), and 120 degrees C (dry)





SEPRO™ | PRE-SAT WIPER

STERILE WIPE WIPERS are available in several substrates, both dry and pre-wetted. These wipers are made from 2 types of fabric:

1- Nonwoven hydroentangled 55% cellulose and 45% polyester. This fabric combines the highly absorbent properties of a natural fiber with the cleanliness and strength of a synthetic fiber. It is particle counts & extractable levels.

2- Polyester fabric is made with hi-strength continuous filament polyester yarn in a double knit, no run interlock pattern.

2 above wipers are pre-wetted with isopropyl alcohol/deionized water solutions filtered to 0.3 µm. The wipers are packaged in resealable flex packs, flip top bins and canisters.

Both types can be sterilized by Gamma Irradiated Sterile thru Cobalt 60 processing.

Applications

- Ideal for wiping critical surfaces and equipment.
- Works well for environmental & process cleaning in aseptic rooms
- Improve yields thru enhanced consistency & control of critical cleaning

Features Wipers pre-wetted with accurately diluted, measured volumes of high-purity IPA/deionized water solution

- Convenient, resealable dispensers
- Packaged in Solvent Safe plastic that can be wiped down prior to introduction into the cleanroom
- Variety of configurations to a wide of applications
- Provides strong, soft pre-wetted wiper for rapid wipe downs
- Offers low particle generation and low levels of solvent extractables

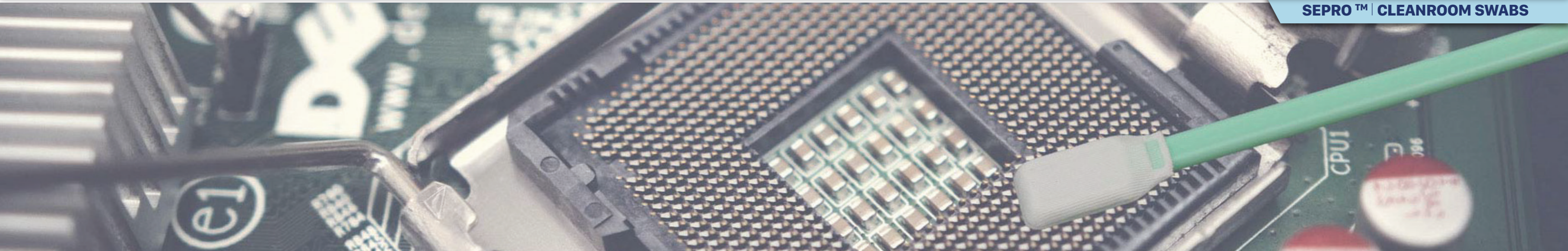
Chemical	Nonwoven CP	Nonwoven MBPP Melt Blown Polypropylene	Polyester Wipers 140 gsm
QT 70 IPA	X	X	X
QT WFI	X	X	X
QT 70 SDA with IPA	X	X	X
QT 70 SDA with Methanol	X	X	X
QT PEROXY PURE 6%			X
QT CHLORITE 0.52%			X
QT CHLORITE 5.25%			X
QT DETERGENT			X
Size	9"x11"	9"x11"	9"x 9", 12"x12"
Quantity	20 Wipes per pouch / 10 Pouches per case	20 Wipes per pouch / 10 Pouches per case	20 Wipes per pouch / 10 Pouches per case

SEPRO™ | STERILE WIPER

STERILE DRY WIPE features sterilized polyester wipers and nonwoven wipers. It is packed in cleanroom then Gamma irradiated to allow for use in aseptic areas. Circular Red Sticker on the packaging ensures the wiper underwent the sterilization process. Sterilized wipers provide excellent cleaning to critical sterile environments such as pharmaceutical areas, sterile suites, microbiological laboratories and biotechnology manufacturing facilities.



P/N	DESCRIPTION	PCS./BAG	BAGS/CASE
STERILE POLYESTER WIPES			
WP-STPOLY-160-12	Sterilized Polyester wiper; Laser Cut; 160 gsm; Size: 12x12	100	5
WP-STPOLY-160-9	Sterilized Polyester wiper; Laser Cut; 160 gsm; Size: 9x9	100	5
WP-STPOLY-140-12	Sterilized Polyester wiper; Laser Cut; 140 gsm; Size: 12x12	50	10
WP-STPOLY-140-9	Sterilized Polyester wiper; Laser Cut; 140 gsm; Size: 9x9	100	10
WP-STPOLY-115-12	Sterilized Polyester wiper; Laser Cut; 115 gsm; Size: 12x12	50	10
WP-STPOLY-115-9	Sterilized Polyester wiper; Laser Cut; 115 gsm; Size: 9x9	100	10
WP-STPOLY-UD-120-12	Sterilized Ultra Dense Polyester wiper; Laser Cut; 120 gsm; Size: 12x12	50	10
WP-STPOLY-UD-120-9	Sterilized Ultra Dense Polyester wiper; Laser Cut; 120 gsm; Size: 9 x 9	100	10
WP-STPOLY-US-120-12	Sterilized Ultra soft Polyester wiper; Laser Cut; 120 gsm; Size: 12x12	50	10
WP-STPOLY-US-120-9	Sterilized Ultra soft Polyester wiper; Laser Cut; 120 gsm; Size: 9x9	100	10
STERILE NONWOVEN WIPES			
WP-NW-STCP-68-12	Sterilized Cellulose/Polyester wiper; 68 gsm; Size: 12 x12	50	10
WP-NW-STCP-56-12	Sterilized Cellulose/Polyester wiper; 56 gsm; Size: 12 x12	100	10



SEPRO™ | FIBER OPTIC SWABS

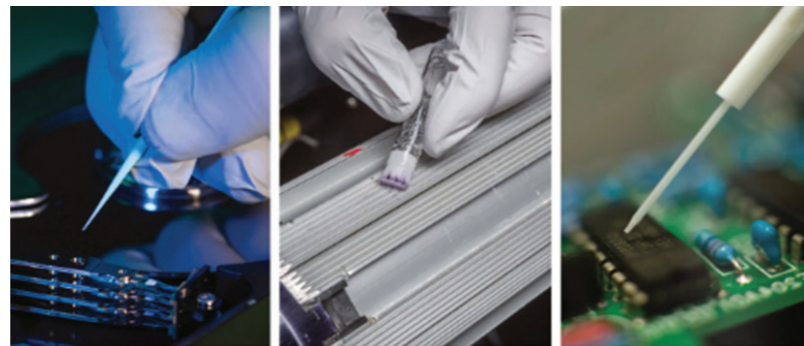
SEPRO offer a wide range of fiber optic cleaning products, providing performance, convenience, time savings and cost savings. Swabs are constructed without adhesives and binders, and made of low linting materials to avoid bandwidth-robbing contamination.

Applications

- Cleaning with solvents such as IPA
- Applying lubricants and other liquids
- Removing excess materials
- Connectors cleaned type MU, LC

Features Utilize an ultrafine fiber cleaning cloth for high-performance dry cleaning.
 Ideal for cleaning fiber optic adapters and end-faces inside alignment sleeves.
 Ensure no cloth scraps are left in the sleeves.
 Environmentally friendly, portable, safe, and compact.
 Offers excellent chemical resistance.

Benefits Ultralow nonvolatile residue
 Low particle and fiber generation
 Good sorbency
 No contaminating adhesives



SEPRO™ | POLYESTER SWABS

Clean room Polyester Swab is an excellent swab for cleaning grooved, slotted, and recessed areas. Its cleanroom-laundered, knitted polyester head is extremely clean and durable. A rigid handle and internal rigid head provide firm support and precise control.

Applications

- Cleaning with solvents such as IPA
- Applying lubricants and other liquids
- Removing excess materials
- Scrubbing applications

Features Excellent polyester swab has good absorption, low non volatile residue
 Long polypropylene handle provides good support
 No silicone, amide and DOP
 Low particle and fiber generation
 Soft and nonabrasive
 Comply with ROHS Standards.



P/N	Materials		Size		Packing
	Tip	Handle	Tip (WxL) (mm)	Total Length (mm)	
SPR-PLXXX- C16-028	Knit Polyester	PP	3 x 13	68	100pcs/bag, 40bags/l.box, 12i boxes/case
SPR-PLXXX- C16-029	Knit Polyester with PP Tube	PP	8 x 20	153	100pcs/bag, 10bags/l.box, 12i boxes/case
SPR-PLXXX- C16-030	Polyester	PP	3 x 17	163	100pcs/bag, 10bags/l.box, 12i boxes/case
SPR-PLXXX- C16-031	Micro Denier Fabric with PP Tube	PP	8 x 20	153	100pcs/bag, 10bags/l.box, 12i boxes/case
SPR-PLXXX- C17-006	PU	A/S PP	3 x 13	68	100pcs/bag, 40bags/l.box, 12i boxes/case
SPR-PLXXX- C17-007	PU	Con. PP	11 x 22	148	50pcs/bag, 10bags/l.box, 12i boxes/case
SPR-PLXXX- C17-008	PU	Con. PP	6 x 17	163	100pcs/bag, 10bags/l.box, 12i boxes/case
SPR-PLXXX- C17-009	Knit Polyester	Con. PP	3 x 13	68	100pcs/bag, 40bags/l.box, 12i boxes/case

SEPRO™ | FOAM SWABS

FOAM SWABS have sealed handles and are constructed from 100 pores per inch reticulated urethane foam ideal for solvent dispersion and low viscosity adhesives. Sealed foam swabs are perfect for removal of solvents and fluxes. Foam swabs feature low levels of nonvolatile residue, particle generation, and are constructed of open-cell polyurethane foam for excellent solvent capacity.

Applications

Streak-free cleaning performance for Disk Drive and Photonic cleaning applications.

Extremely low ionic and NVR levels for HDD and optic cleaning applications.

Silicone free.

Thermal bonding process ensures no adhesive residue and minimizes particle generation from seal.

Available in increased densities for applications where particle shedding and scratching cannot be tolerated.

Available in very small point and paddle style head shapes for cleaning of very small spaces.

Certified Non-Cytotoxic for life science applications.

Features PU foam head over rigid paddle

Closed-cell structure, Large polypropylene handle

Thermally sealed head, Soft and nonabrasive



P/N	Materials		Size		Packing
	Tip	Handle	Tip (WxL) (mm)	Total Length (mm)	
SPR-PFXXX- C16-017	PU	PP	3 x 13	68	100pcs/bag, 40bags/l.box, 12i.boxes/case
SPR-PFXXX- C16-018	PU	PP	4 x 10	68	100pcs/bag, 40bags/l.box, 12i.boxes/case
SPR-PFXXX- C16-019	PU	PP	4 x 22	68	100pcs/bag, 40bags/l.box, 12i.boxes/case
SPR-PFXXX- C16-021	PU	PP	2.5 x 22	68	100pcs/bag, 40bags/l.box, 12i.boxes/case
SPR-PFXXX- C16-022	PU	PP	5 x 10	80	100pcs/bag, 40bags/l.box, 12i.boxes/case
SPR-PFXXX- C16-023	PU	PP	15 x 25	132	50pcs/bag, 10bags/l.box, 12i.boxes/case
SPR-PFXXX- C16-024	PU	PP	11 x 23	134	50pcs/bag, 10bags/l.box, 12i.boxes/case
SPR-PFXXX- C16-025	PU	PP	11 x 22	148	50pcs/bag, 10bags/l.box, 12i.boxes/case
SPR-PFXXX- C16-027	PU	PP	6 x 17	163	100pcs/bag, 40bags/l.box, 12i.boxes/case

SEPRO™ | COTTON SWABS

THE COTTON SWAB is made with the longest staple cotton fibers and a simple methyl-cellulose binder, providing very low levels of extractable residue, particles, and fibers

Applications

Suitable for hole and groove cleaning

Used in removing excess materials

Use in some of the most critical applications, including disk drive manufacturing and high-level optical surfaces.

Features Excellent absorbency, Lint-free

Exceptionally soft and non abrasive

Double headed pointed cotton swab

Solvent resistant, No swelling on cotton bud

Made in Japan, Cleanroom processed



Product Name	Total Length (mm)	Cotton Length (mm)	Cotton Head (mm)	Clearance (mm)	Packaging	G.W./Carton (Kg)	Carton Dimension (mm)
SPR-PFXXX-S-001	76.0 (±1.0)	15.0 (±2.0)	Ø 3.6 (±0.2)	Over 1.3	25 pcs/pack, 100 packs/box, 20boxes/ctn	12.5	455x390x445
SPR-PFXXX-S-002	76.0 (±1.0)	12.0 (±2.0)	Ø 2.7 (±0.3)	Over 0.8	25 pcs/pack, 200 packs/box, 10boxes/ctn	11.75	490x300x390
SPR-PFXXX-S-003	75.0 (±1.0)	12.0 (±1.0)	Ø 3.0 (±0.2)	Over 0.5	25 pcs/pack, 200 packs/box, 10boxes/ctn	10.7	490x300x390
SPR-PFXXX-S-004	80.0 (±2.0)	12.0 (±2.0)	Ø 4.7 (±0.3)	Over 2.5	25 pcs/pack, 80 packs/box, 20boxes/ctn	21	670x475x315
SPR-PFXXX-SW-004	80.0 (±2.0)	12.0 (±2.0)	Ø 4.7 (±0.3)	Over 2.5	25 pcs/pack, 80 packs/box, 20boxes/ctn	15	675x480x320
SPR-PFXXX-S-005	77.0 (±3.0, 2.0)	14.0 (±2.0)	Ø 2.8 (±0.4)	Over 1.0	25 pcs/pack, 200 packs/box, 10boxes/ctn	11.3	490x300x390
SPR-PFXXX-S-006	75.0 (±1.5)	11.0 (±2.0)	Ø 2.2 (±0.3)	0.3 (+2.0)	25 pcs/pack, 200 packs/box, 10boxes/ctn	10.6	490x300x390
SPR-PFXXX-S-007	78.0 (±1.0)	15.0 (±2.0)	Ø 4.7 (±0.3)	Over 1.5	25 pcs/pack, 80 packs/box, 20boxes/ctn	20.7	670x475x315
SPR-PFXXX-SW-007	78.0 (±1.0)	15.0 (±2.0)	Ø 4.7 (±0.3)	Over 1.5	25 pcs/pack, 80 packs/box, 20boxes/ctn	14.6	675x480x320
SPR-PFXXX-S-008	148.5 (±1.0)	15.0 (±2.0)	Ø 4.7 (±0.5)	Over 1.5	100 pcs/pack, 10 packs/box, 20boxes/ctn	16.5	470x375x280
SPR-PFXXX-SW-008	148.5 (±1.0)	15.0 (±2.0)	Ø 4.7 (±0.5)	Over 1.5	100 pcs/pack, 10 packs/box, 20boxes/ctn	10.3	545x425x295

SEPRO™ | STICKY GEL SWABS

SEPRO Gel Sticky Swab has an adhesive silicone head with high viscosity, allowing for effective removal of dust from small slotted and grooved areas.

Gel Sticky Swab is a very efficient and secure way to clean sensitive devices, leaving no traces or marks behind

Applications

- Cleaning the specular microscope
- Cleaning the sensor of the camera
- Cleaning the hard disk driver
- Cleaning precision instruments
- Cleaning small areas
- Removing excess materials

- Features**
- Compact and flexible, easy to operate without any damage.
 - High Sensitive rubber tip
 - Keep your screen free from scratches and fingerprints

Part No	SW-GL001	SW-GL002	SW-GL003	SW-GL004	SW-GL008
Head material (Gel Sticky)					
Head width	2.0 mm (0.079")	2.0 mm (0.079")	3.0 mm (0.118")	2.0 mm (0.079")	2.0 mm (0.079")
Head thickness	2.0 mm (0.079")	2.0 mm (0.079")	3.0 mm (0.118")	2.0 mm (0.079")	2.0 mm (0.079")
Head length	2.0 mm (0.079")	2.0 mm (0.079")	2.0 mm (0.079")	2.0 mm (0.079")	2.0 mm (0.079")
Handle material	ABS	ABS	Acrylic	Stainless Steel	Stainless Steel
Handle width	1.8 mm (0.071")	1.8 mm (0.071")	3.0 mm (0.118")	1.0 mm (0.039")	1.0 mm (0.039")
Handle thickness	1.8 mm (0.071")	1.8 mm (0.071")	3.0 mm (0.118")	1.0 mm (0.039")	1.0 mm (0.039")
Handle length	76.0 mm (2.677")	68.0 mm (2.677")	76.0 mm (2.99")	68.0 mm (2.677")	68.0 mm (2.677")
Total swab length	70.0 mm (2.756")	70.0 mm (2.756")	78.0 mm (3.07")	70.0 mm (2.756")	70.0 mm (2.756")
Head bond	Thermal	Thermal	Thermal	Red Thermal	Thermal
Handle color	Yellow Transparent	White Transparent	Transparent	Blue Transparent	Blue Transparent
Design notes	Precision pointed tip	Precision pointed tip	Precision pointed tip	Precision pointed tip	Precision pointed tip
Packing	100 pcs/box	100 pcs/box	10 pcs/box	10 pcs/box	10 pcs/box

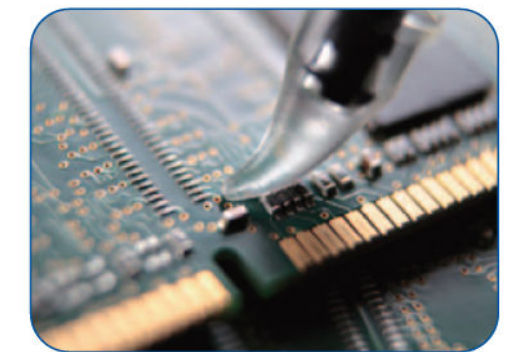
URETHANE SWABS

Urethane is a very safety material, it-self has sticky and 100% no residue left after cleaning. Another impressed of Urethane Swab is the softness and excellent gentle which ideal for any sensitive surface part in Cleanroom process.

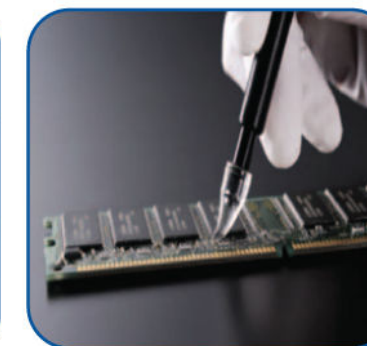


Number	Name	Pencil Point
PEN-R	Gel Cleaners Pencil type	Round
PEN-V		Pen-shaped
PEN-H		Paddle-shaped
PEN-S		Square

Can change adhesive strength. (estimate needed)



- PEN-R (Round) Standard model for easy to use
- PEN-V (Pen-shaped) For tiny spaces
- PEN-H (Paddle-shaped) For ditch and tiny spaces
- PEN-S (Square) For flat surfaces



- Usage** Remove dusts in part of uneven, base of print, and device
- Usage example** Can use to semiconductor, LED, precision, optical, and electronic instrument.

SEPRO™ | MOPPING SYSTEM

Sepro supplies different varieties of replaceable Mop Heads and Mop Covers for your ceiling, wall, and/or floor cleaning needs.

We offer the sponge type, polyester type, seamless polyester type, and nonwoven CP mop.

These mops are designed and engineered a variety of mop types and covers to suit virtually any need - large areas, isolators.

Mop Frame & Handle

	Stainless Steel thame	Aluminum Handle
MATERIAL	Stainless Steel	Aluminum
FEATURES	Hinged design allows fast and easy replacement of mop covers Permits mopping in an "S" motion, collecting solid particles Easy and efficient cleaning under fixtures or other hard to reach surfaces Compatible with Gamma, ETO, Autoclave	Reduced user fatigue and can be used for hard to each areas such as floors, walls, and ceilings, Compatible with Gamma irradiation, ETO, and Autoclave

Mop Heads

	CP Mop	MF Mop	Sponge Mop	Poly Mop Cover	Quilted Polyester Flat Mop	Microfiber Flat Mop	Seamless Mop
MATERIAL	Cellulose/Polyester	Microfiber	Polyurethane	Polyester	Polyester	Microfiber/Polyester	Seamless Mop
FEATURES							
Excellent for spill control	●	●	●	●	●	●	●
Quick and easy mop attachment	●	●			●	●	
Lightweight	●	●					
Non-abrasive	●	●			●	●	
Durable	●	●	●		●	●	●
Chemical resistant			●		●	●	
Fits securely over sponge mop				●			
Designed for wring-bucket systems							●
APPLICATIONS							
Ceilings	●	●		●			
Walls	●	●	●	●	●	●	
Floor			●	●	●	●	●
Gamma Irradiation	●		●		●	●	
ETO			●				
Autoclave			●				

SEPRO™ | ABSORBENT MATERIALS

When dealing with chemical spills, it's essential to use the best absorbents for the job. The SEPRO absorbent pads are an excellent choice for potential chemical spill scenarios, and they are a vital part of any spill control plan.

The SEPRO chemical absorbents perform exceptionally well with aggressive fluids, including hydrofluoric, sulfuric, nitric, phosphoric, and hydrochloric acids, as well as other harsh chemicals, without degrading in quality.

These pads are specifically designed for use with chemical and hazardous liquids and feature a bright yellow colour to indicate hazardous materials, meeting industry standards. They are suitable for all areas of chemical plants and manufacturing.

Features Clean the chemical and other hazardous liquid, apply to any chemical or hazardous liquid.

Recycle about 80% oil after fully absorbing and reuse it.

It has strong oil absorption capacity.

Durable, highly absorbent, and lint-free. They are an efficient substitute for paper towels and gauze. They are available in pad, sock, and boom types.



Chemical Absorbent Pads
Rolls
Booms sock

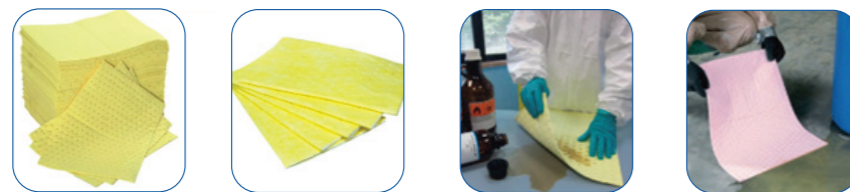
Material Polypropylene

Standard colour Yellow/Pink-Function

Applications

Chemical plant, laboratory... etc some chemical & hazardous spill areas, and clean the chemical & hazardous liquid.

PAD PACKING TYPE



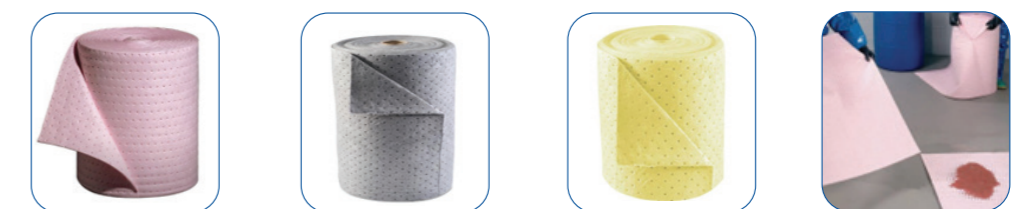
Model	Size	Gms	Packing Qty	Absorbency	Packing	Packing Size
CHA-P0200	40cm*50cm*2mm	200g	200pcs/B	120L/B	PE Bag/PE Bag+Carton	42*52*42cm
CHA-P0250	40cm*50cm*3mm	250g	150pcs/B	113L/B	PE Bag/PE Bag+Carton	42*52*40cm
CHA-P0300	40cm*50cm*4mm	300g	150pcs/B	135L/B	PE Bag/PE Bag+Carton	42*52*48cm
CHA-P0350	40cm*50cm*4mm	350g	100pcs/B	105L/B	PE Bag/PE Bag+Carton	42*52*42cm
CHA-P0400	40cm*50cm*5mm	400g	100pcs/B	120L/B	PE Bag/PE Bag+Carton	42*52*42cm

BOOM / SOCK PACKING TYPE



Model	Size	Packing Qty	Absorbency	Packing	Package Size
CHA-B7612	φ .6cm*1.2m	20pcs/B	105L/B	PE Bag/PE Bag +Carton	41*51*46cm
CHA-B10030	φ 10cm*3m	4pcs/B	90L/B	PE Bag/PE Bag +Carton	41*51*38cm
CHA-B12730	φ 12.7cm*3m	4pcs/B	110L/B	PE Bag/PE Bag +Carton	50*50*50cm
CHA-B12760	φ 12.7cm*6m	2pcs/B	110L/B	PE Bag/PE Bag +Carton	50*50*50cm
CHA-B20030	φ 20cm*3m	4pcs/B	240L/B	PE Bag/PE Bag +Carton	62*62*76cm
CHA-B20060	φ 20cm*6m	2pcs/B	240L/B	PE Bag/PE Bag+Carton	62*62*76cm

PACKING ROLL TYPE



Model	Size	Gms	Packing Qty	Absorbency	Packing	Packing Size
CHA-R0200	40cm*50cm*2mm	200g	1R/B	60L/B	PE Bag/PE Bag+Carton	38*38*42cm
CHA-R0200D	80cm*50cm*2mm	200g	1R/B	120L/B	PE Bag/PE Bag+Carton	38*38*82cm
CHA-R0250	40cm*50cm*3mm	250g	1R/B	75L/B	PE Bag/PE Bag+Carton	41*41*42cm
CHA-R0250D	80cm*50cm*3mm	250g	1R/B	150L/B	PE Bag/PE Bag+Carton	41*41*82cm
CHA-R0300	40cm*50cm*4mm	300g	1R/B	90L/B	PE Bag/PE Bag+Carton	44*44*42cm
CHA-R0300D	80cm*50cm*4mm	300g	1R/B	180L/B	PE Bag/PE Bag+Carton	44*44*82cm
CHA-R0350	40cm*50cm*4mm	350g	1R/B	105L/B	PE Bag/PE Bag+Carton	44*44*42cm
CHA-R0350D	80cm*50cm*4mm	350g	1R/B	210L/B	PE Bag/PE Bag+Carton	44*44*82cm
CHA-R0400	40cm*50cm*5mm	400g	1R/B	120L/B	PE Bag/PE Bag+Carton	51*51*42cm
CHA-R0400D	80cm*50cm*5mm	400g	1R/B	240L/B	PE Bag/PE Bag+Carton	51*51*82cm



Sepro offers our comprehensive collection of Sticky Products designed to meet the diverse needs of various environments, from industrial settings to cleanroom facilities.

Sepro's Sticky Mat and Sticky Roller offer the precise solutions required to uphold cleanliness, enhance efficiency, and elevate standards within your facility.

SEPRO™ | GENERAL STICKY MAT

Sticky mat is a total solution for critical environments because it effectively captures and removes dirt or contamination on wheels and shoes at entrances of controlled or critical areas.

It has a different level of tackiness which suits for different applications. It is composed of easy to peel-off, disposable sticky mat layers that can effectively capture all foot-borne and wheel-borne particulates from entering the controlled working environment.

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 its frame or without it.

Adhesive level can be adjusted on request.

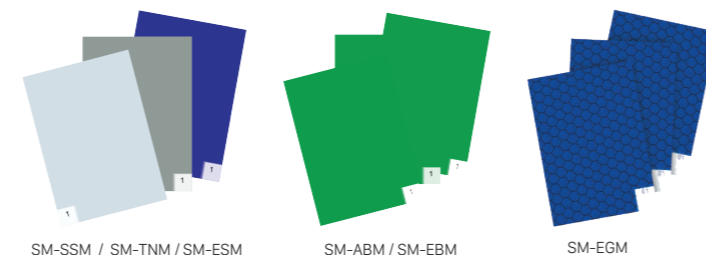
Antimicrobial sticky mat is available for pharmaceutical, biological and medical areas.

Two types of ESD sticky mats are also available for static sensitive areas.

Thin film sticky mat at economic price is another option.



- Features** SM-SSM - Sticky mat (Standard)
- SM-TNM - Thin film sticky mat
- SM-ABM - Antimicrobial sticky mat
- SM-EBM - ESD antimicrobial sticky mat
- SM-ESM - ESD sticky mat
- SM-EGM - ESD sticky mat with grid pattern



Size	Color	Packing
18" x 36", 18" x 45", 24" x 36", 26" x 45", etc.	Blue, Grey, White, Light green, Clear	30 sheets or 60 sheets/mat, 4mats, 8mats, 10mats/case, etc.

URETHANE MAT (REUSABLE MAT)

Self-adhesive Material itself is sticky. There is no adhesive residue. Possible to vary the adhesion.

Super softness It is much softer than conventional materials. 500%-1000% growth rate.

High shock absorption It is excellent in absorbing energy. Absorb about 90% of the impact.

Pressure dispersibility Ability to disperse the pressure is very high. It is difficult to age.

The others Wear resistance, Oil resistance. Chemical resistance. This material does not hydrolyse.

Applications

Soft gel is familiar with the uneven portion of the sole, and catches a small dirt and dust firmly.

Urethane gel adsorbs dust by self-adhesive, and does not let scattering.

It is to clean the sole just step on.

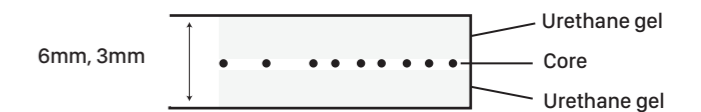
The dirt of the mat can be cleaned simply by wiping.

It does not emit extra garbage because you can use it repeatedly.

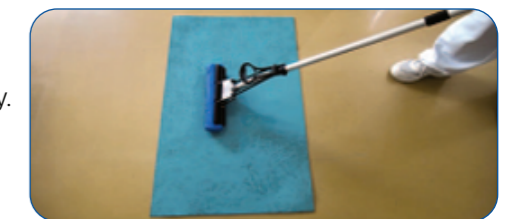
It is to clean the sole just step on.

Trucks also pass along smoothly by the slope.

Strength increased by placing the core material.

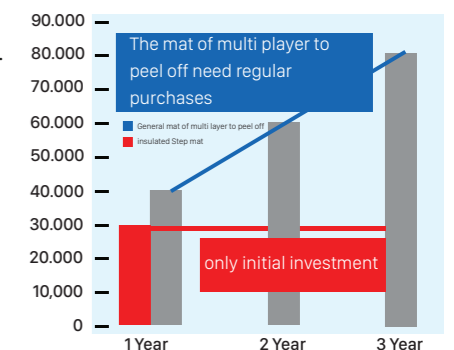


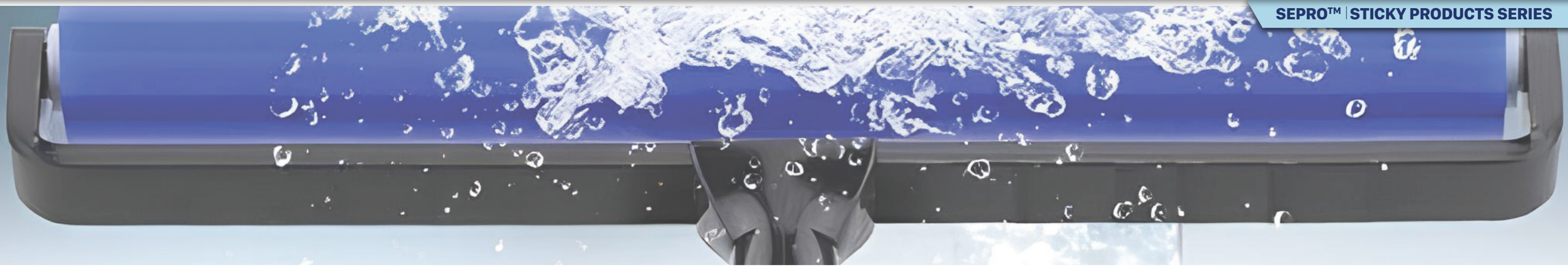
Super softness It is excellent in absorbing energy.



You can use it repeatedly by wiping.

No need to buy regularly so cost performance is excellent because you can use it repeatedly.





SEPRO™ | PE STICKY ROLLER

Tacky Rollers with Peelable Sheets, these adhesive rollers are made of Polyethylene (PE), and sheets can be peeled-off to expose a clean one when a sheet becomes contaminated.

The large diameter core provides a generous cleaning area, resulting in less frequent sheet disposal.

Roller and roller handle widths are available in 4, 6, 8, 10, and 12 inches.



SEPRO™ | SILICONE ROLLER

This reusable tacky roller provides the best possible means of removing even the smallest particle from a surface such as table tops. The roller is made of silicone with no sheets to peel-off, just tap or roll over a clean sticky mat once dirty and reuse again.

Roller length is available in 4, 6, 8, 10, 12, 14, and 16 inches and comes with aluminum frame and handle or aluminum frame with plastic handle.



URETHANE ROLLER

Guel is not left because of self-adhesive.

It is easy to clean the dirt of roller by washing with exclusive detergent or water.

It does not emit unnecessary wastes and not scatter

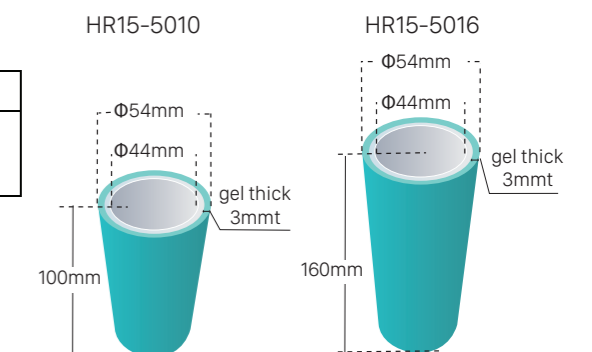
Silicon is not used



Roller for Hand



Number	Size	Color
HR15-5010	Φ54x100	Blue Green
HR15-5016	Φ54x160	





SEPRO™ | CLEANROOM COVERALL

SEPRO cleanroom garment factory is located in Long Khanh, Dongnai where there are a lot of sewing factories and well-trained operators in sewing technique. Thus, our advantage is fine products with reasonable cost.

We are fully provided from design to finishing products with a wide variety of styles, sizes, colors, including embroidered company logos, badges or prints.

We made coveralls from high-quality fabrics speciality for cleanroom, food, and pharmaceutical industry fields. The fabrics have features of high particle protection, comfort, and anti-static by carbon material and woven techniques. Some common Fabric use as following

High Clean Coverall



- Features**
- Produced on your required design and fabric
 - 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 quantity also can be supplied

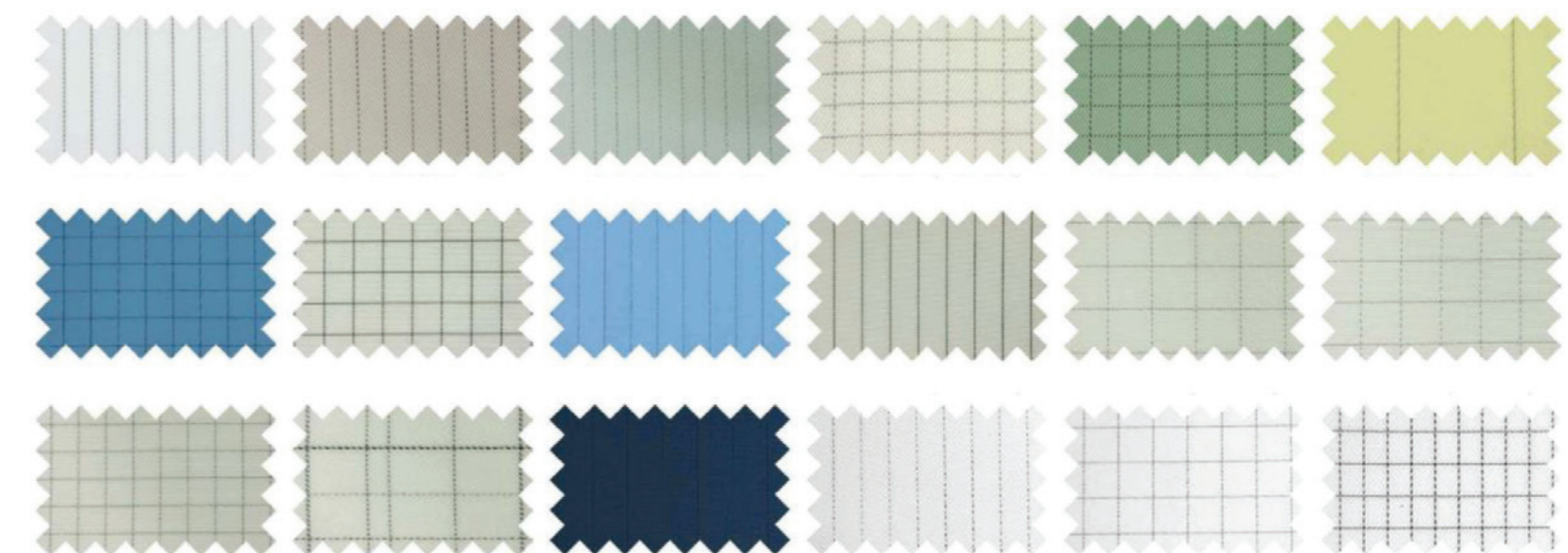
Cleanroom Gown



Lint Free Static Control Fabric



Lint Free Static Control Fabric



We offer many types of Cleanroom garment such as gown, coverall, jacket, T-shirt etc

SEPRO™ | CLEANROOM SHOES

Nearly 15 years, the company has been committed to providing customers with high-quality Anti-static shoes, Dust-free shoes, Anti-static safety shoes (ESD standard), Conductive shoes, Autoclavable shoes, and Anti-static dust-free clean clothing.

The products are widely used in electronics, food, medicine, precision instruments, petrochemicals, automobile manufacturing and electrostatic sensitive places, and dust-free workshop places.

Part No	Type of Shoes	Picture	Color	Upper Material					Sole Material			Toe	Addition
				PVC	Canvas	PVC + Mesh	PVC + Antistatic Cloth	Canvas + Antistatic Cloth	PVC	PU	Ruber		
FD-5101	Anti-static four-hole shoes		White	•						•	•		
FD-5101	Anti-static four-hole shoes		Navy blue		•					•	•		
FD-5105	Anti-static shoes		White	•						•	•		
FD-5105	Anti-static shoes		Navy blue		•					•	•		
FD-5111	Anti-static shoes		White			•				•	•		
FD-5112	Anti-static shoes		White			•				•	•		
FD-5133	Anti-static shoes		White	•						•			
FC-6201	Anti-static booties		White				•			•	•		

SEPRO™ | CLEANROOM BOOTIE

Part No	Type of Shoes	Picture	Color	Upper Material					Sole Material			Toe	Addition
				PVC	Canvas	PVC + Mesh	PVC + Antistatic Cloth	Canvas + Antistatic Cloth	PVC	PU	Rubber		
FC-6201	Anti-static booties		Blue				•			•	•		
FC-6202	Anti-static booties		White				•			•	•		Sponge
FC-6202	Anti-static booties		Blue				•			•	•		Sponge
FC-6211	Anti-static half booties		White				•			•	•		Sponge
FH-4301	Anti-static safety booties		White				•			•		Composite (200J)	Sponge
FH-4302	Anti-static safety booties		White				•			•		Composite (200J)	Sponge
NW-6203-3	Autoclavable booties		White					•			•		high temperature of 121 degrees
NW-5105	Autoclavable shoes		White		•						•		high temperature of 121 degrees

SEPRO™ | CLEANROOM GLOVE

Industrial and medical boxed gloves serve one purpose: to protect the operators. Cleanroom bagged gloves are designed to protect both the operators and the products.

The primary purpose of wearing gloves in a controlled environment is to minimize submicron particle contamination of the product or process from the operator's hands. Therefore, choosing the most appropriate glove is one of the most important cleanroom consumable selections.

GLOVE SUBSTRATES

Natural Rubber Latex (Latex)

Polyvinyl Chloride (PVC)

Acrylonitrile Butadiene Rubber (Nitrile)

	Vinyl	Latex	Nitrile
Static Dissipative	++++	+	++++
Protein Allergies	None	+	None
Chemical Resistance	+	+++	++++
Strength/Durability	++	++++	+++
Modulus	+	+++	++++
Tactile Sensitivity	+	+++	++++

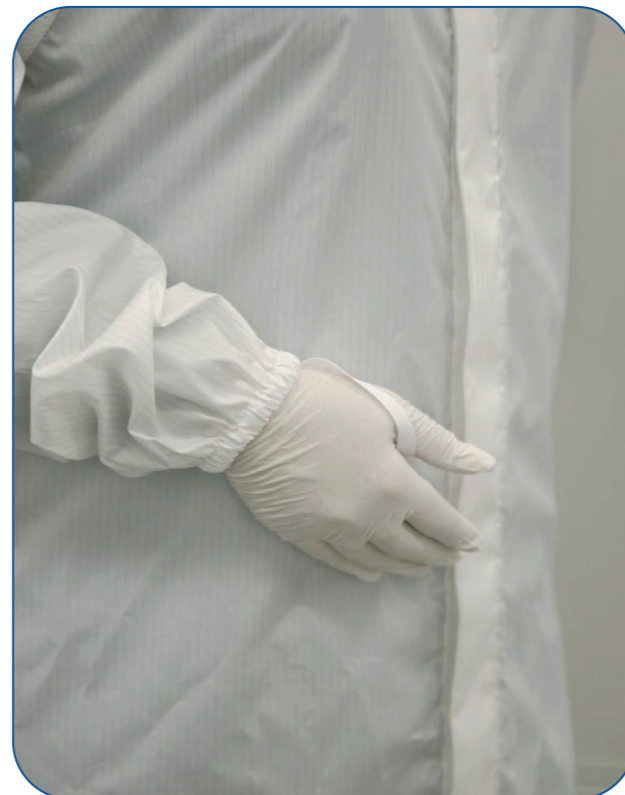
+ Poor ++ Good +++ Better ++++ Best

SEPRO™ | POLYVINYL CHLORIDE (PVC)

Known for its inherent cleanliness (low in both particles and ionic extractable), ESD properties, and low cost.

These attributes make vinyl gloves ideal for use in medical device manufacturing, microelectronics, and other similar dry controlled environments.

A PVC glove fits looser on an operator's hand than latex or nitrile, which can reduce dexterity.



SEPRO™ | NATURAL RUBBER LATEX (LATEX)

Historically the most common material for gloves due to its durability, comfort, and dexterity.

Latex is ideal when high dexterity and tactile sensitivity is necessary. It provides excellent protection against contamination and chemicals such as acids, alcohols and ketones.

In some people, latex proteins may cause an allergic reaction for which nitrile gloves provide a good alternative.

Product Specifications

Material 100% natural rubber latex

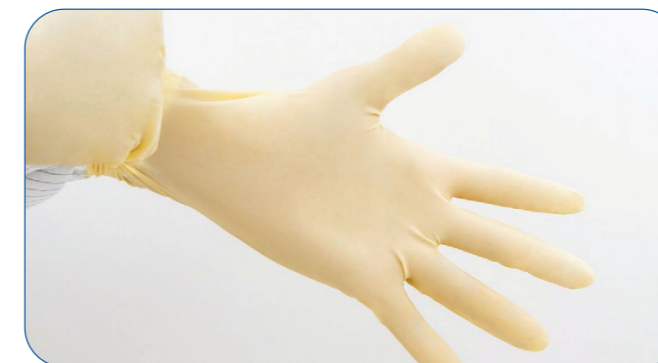
Glove Feature Ambidextrous

Beaded cuff for enhance donning

Textured surface or smooth surface

Color Natural yellow

Quality Standard ASTM D3578-05



Technical Properties	Class 10	Class 100
Protein Level	N/A	N/A
Electrical Properties Resistivity (ANSI/ESD SP 15-01-2005)	1 x 10 ¹¹ ohms/square at 50%-60% relative humidity	1 x 10 ¹¹ ohms/square at 50%-60% relative humidity
Total Non-volatile Residue	< 1.5 µg/cm ² (IEST-RPCC005)	< 2.5 µg/cm ² (IEST-RPCC005)
Particles Level (particles/cm ²) Particles sizes ≥ 0.5 µm	< 800 (IEST-RPCC005)	< 1,500 (IEST-RPCC005)
FT-IR Analysis	Class 10	Class 100
Silicone	None	None
Amide	None	None
Phthalate	None	None
Extractable Content (Ionic)	Class 10	Class 100
Fluoride (F ⁻)	< 0.005 µg/cm ²	< 0.010 µg/cm ²
Chloride (Cl ⁻)	< 0.100 µg/cm ²	< 0.300 µg/cm ²
Bromide (Br ⁻)	< 0.005 µg/cm ²	< 0.050 µg/cm ²
Nitrate (NO ₃ ⁻)	< 0.100 µg/cm ²	< 0.300 µg/cm ²
Phosphate (PO ₄ ³⁻)	< 0.005 µg/cm ²	< 0.015 µg/cm ²
Sulfate (SO ₄ ²⁻)	< 0.050 µg/cm ²	< 0.050 µg/cm ²
Lithium (Li ⁺)	< 0.001 µg/cm ²	< 0.001 µg/cm ²
Sodium (Na ⁺)	< 0.050 µg/cm ²	< 0.100 µg/cm ²
Ammonium (NH ₄ ⁺)	< 0.050 µg/cm ²	< 0.100 µg/cm ²
Potassium (K ⁺)	< 0.050 µg/cm ²	< 0.100 µg/cm ²
Magnesium (Mg ²⁺)	< 0.005 µg/cm ²	< 0.010 µg/cm ²
Calcium (Ca ²⁺)	< 0.050 µg/cm ²	< 0.200 µg/cm ²

SEPRO™ ACRYLONITRILE BUTADIENE RUBBER (NITRILE)

This material offers good dexterity and superior resistance to many types of chemicals. Compared to latex, nitrile is lower in particles, ionic extractable and non-volatile residues (NVR).

Nitrile also has "memory" properties that adapt it to the hand for a more custom fit that reduces fatigue. It is three times more puncture resistant than latex, and it also provides protection against cutting and scraping. Static-dissipative properties make nitrile ideal for all static sensitive environments.

Product Specifications

Material 100% acrylonitrile-butadiene latex

Glove Feature Ambidextrous

Beaded cuff for enhance donning

Fast adapted to hand shape, comfort and durable

Textured surface for better feel and grip

Smooth surface for smooth feeling

Color White / Blue

Quality Standard ASTM D6319-00

Technical Properties	Class 100	Class 1000
Protein Level	< 50 µg/gm	< 50 µg/gm
Electrical Properties Resistivity (ANSI/ESD SP 15-01-2005)	1x 10 ¹² ohms/square at 50%-60% relative humidity	N/A
Total Non-volatile Residue	< 2.5 µg/cm ² (IEST-RPCC005)	N/A
Particles Level (particles/cm ²)		
Particles sizes ≥ 0.5 µm	< 1,500 (IEST-RPCC005)	< 3,500 (IEST-RPCC005)
FT-IR Analysis	Class 100	Class 1000
Silicone	None	None
Amide	None	None
Phthalate	None	None
Extractable Content (Ionic)	Class 100	Class 1000
Fluoride (F ⁻)	< 0.030 µg/cm ²	N/A
Chloride (Cl ⁻)	< 2.000 µg/cm ²	N/A
Bromide (Br ⁻)	< 0.030 µg/cm ²	N/A
Nitrate (NO ₃ ⁻)	< 1.000 µg/cm ²	N/A
Phosphate (PO ₄ ³⁻)	< 0.030 µg/cm ²	N/A
Sulfate (SO ₄ ²⁻)	< 1.000 µg/cm ²	N/A
Lithium (Li ⁺)	< 0.002 µg/cm ²	N/A
Sodium (Na ⁺)	< 0.150 µg/cm ²	N/A
Ammonium (NH ₄ ⁺)	< 0.150 µg/cm ²	N/A
Potassium (K ⁺)	< 0.100 µg/cm ²	N/A
Magnesium (Mg ²⁺)	< 0.010 µg/cm ²	N/A
Calcium (Ca ²⁺)	< 0.200 µg/cm ²	N/A



SEPRO™ | CLEANROOM GLOVES RECYCLING

The key point of Gloves Recycling is cost saving, it can save more than a half cost depending on the quality of Gloves. Some gloves can be recycled 4-5 times.

All Gloves are treated in cleanroom class 100/1000 with Ultrapure EDI water (18.5 M Ohm)

Brief operation Process

1	Glove will be separated by size from customer's factory and pack to wait for pick up	
2	SEPRO re-pack carefully and send to factory for Clean room washing	
3	Gloves will be separated for NG and Good condition for further Cleanroom treatment	
4	Gloves will be Washing and drying in Clean room Class 100-1000	
5	Sample checking for APC and do vacuum packing in Clean room	
6	Carton packing and ready to delivery to customer	

Delivery Condition

Gloves will be delivered to customer with test report attached lot by lot, compliant with Clean room class 1000/100



LAUNDRY SERVICE

SEPRO™ | CLEANROOM GOGGLES



LAUNDRY

Our garment processing operations are performed in a class 100-ISO 5 cleanroom laundry environment. Our rigorous twelve-step cleaning process has earned us the industry's recognition for our high-quality service.

Our services involve the following technical features.

We also offer a garment pick-up service and guarantee quick delivery to your facility.

Our facility and equipment meet the industry's highest standards, which enables us to meet all of your requirements and respond to any emergency.

- Features**
- Class 100 cleanroom
 - 99.99% efficient air filtration at 0.30 micron
 - IES-RP-CC/ASTM / Helmke drum tests
 - Use of ultrapure water at 0.20 micron/deionized water
 - Microprocessor-controlled, automated washers and dryers
 - Bioburden monitoring in the cleanroom, water and on work surfaces



Quality Control Strictly

- Documentation available for each processed batch, including test results
- Comprehensive quality control system: ISO 9001:2015
- Customized processing, adapted to each individual client
- Use of a bar code system for uniform tracking and inventory management

SEPRO™ | DISPOSABLE GOGGLES

This Autoclavable Goggle is a good choice for a single-use goggle with anti-fog and anti-scratch properties.

The lenses are made of Polycarbonate (PC) material while the frame is made of Thermoplastic rubber (TPR). The quad vents, two on top and two below the goggle is a good feature of this product to help minimize the fogging of lens while being used.

Applications

Controlled or critical rooms that needs eye protection

Features Also features a non-irritant Silicone strap for a comfortable use.

Excellent choice for a single use autoclavable goggle

Can be steam autoclaved at 121°C, 110kPa for 20 mins exposure time

Features indirect ventilation having quad vents which is made of Polycarbonate material to minimize lens' fogging

Non-irritant Silicone strap with adjustable length

Compatible or can fit over most prescription glasses

Also available in autoclaved version

Technical Data

Material Information

- Lens: Polycarbonate
- Frame: Thermoplastic Rubber (TPR)
- Vent Cap: Polycarbonate
- Elastic Strap: Non-irritant Silicone



P/N	DESCRIPTION	PC/BAG	BAGS/CASE
G-AC-AF-SU	Cleanroom Single-Use Goggles, Autoclavable	1	50



SEPRO™ | CLEAN ROOM GOGGLES

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

Features These goggles are developed to withstand multiple autoclave sterilization without perceptible alterations.

The careful design allows a long time use and maximum transpiration, providing a large field of view and use over all prescription glasses.

Sterilizable in autoclave in steam. Lens, frame and band can withstand 40 cycles of autoclave* (121°C, 110kPa, 30mins)

Lens are replaceable

Frame is made of thermoplastic rubber which makes it stable even with multiple sterilization

Non-allergic 24-mm wide Silicone strap with adjustable length

Wide panoramic field of vision made impact-rated polycarbonate, premium anti-fog lens

Indirect ventilation on top of goggles to protect against chemical splashes

Compatible or can fit over most prescription glasses

Meets Safety glass standard of "EN166 34 BT"



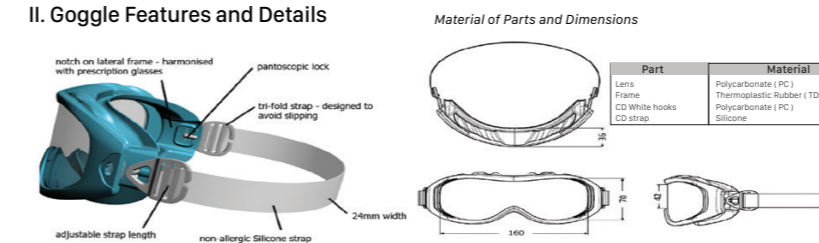
Technical Data

I. Test Data Summary (In accordance to EN 166:2016)

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)	5.1m/s 22mm 43g Drop Ball 1.3m
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) 120m.s ~400fps 6mm dia ball of 0.86g
Resistance to fogging of oculars	PASS	"N" marking req't: ≥8 (s)

Note: *Tested under laboratory conditions using only DI water to clean the lens

II. Goggle Features and Details



Other Information

P/N	DESCRIPTION	PC/BAG	BAGS/CASE
G-AC-AF-M	Cleanroom Goggles, Autoclavable and Anti-fog	1	50

III. Other Information

General Instructions:

- Ensure that the autoclave bag is large enough to allow some space between the lens and the plastic side of the bag to avoid over-cramping the goggle. Do not overheat the autoclave bag as excessive heat may cause water marks after autoclave.
- Wait for the bags to be completely cooled down before removing from the autoclave to prevent water stains.
- Do not use any chemical solvent on the lens/frame such as peracetic acid, alcohol, etc.

Cleaning Instructions:

- Thoroughly clean all surfaces with a mild soap solution and lukewarm water, then rinse.
- Dry with clean microfiber cloth.
- Do not use any chemical solvent on the lens/frame such as peracetic acid, alcohol, etc.

Storage Conditions:

- Store in a dry, cool place (<40°C) away from direct sunlight.
- Silicon strap will cause stubborn marks on lens coating when in contact. Minimize contact. Store properly.
- Frame deformation may happen during autoclave and after autoclave, when exposed to both heat and physical compression. Always carefully arrange the frames to av them onto one another prior to storage, especially when storing at higher than ambient room temperature.



SEPRO™ | METAL PROCESSING

At SEPRO, we specialize in delivering top-tier metal processing solutions to meet the diverse needs of our clients. Our extensive experience and dedication to quality ensure that every project, whether small or large in volume, receives the highest level of precision and care.

Our Strengths:

Quality Assurance

We collaborate with highly qualified factories that adhere to stringent quality standards, ensuring that every product meets or exceeds expectations

Scalability

Our network of partner factories allows us to efficiently handle projects of all sizes, from small custom orders to high-volume production runs.

Advanced Technology

Utilizing state of the art equipment and technologies to deliver precise and consistent results.

Good price

One of our greatest strengths lies in our robust relationships with a wide network of subcontractors. This provides several key advantages to our clients such as price, flexibility, and quick delivery.



SEPRO™ | CLEANROOM TROLLEY

Designed with the highest standards in mind, our cleanroom trolley is the perfect solution for transporting materials within controlled environments. Engineered to meet the stringent requirements of cleanrooms, our trolley ensures the safe and efficient movement of sensitive equipment and materials..

Features

High-Quality Materials

Constructed from stainless steel and other non-corrosive materials to maintain cleanliness and prevent contamination.

Ergonomic Design

Designed for ease of use, with smooth edges and ergonomic handles to facilitate comfortable and safe operation.

Easy Maneuverability

Equipped with high-grade swivel casters for smooth and easy movement, even in tight spaces.

Durable Construction

Built to withstand rigorous use in cleanroom environments, ensuring long-lasting performance.

Customizable Shelving

Adjustable shelves to accommodate various sizes of equipment and materials, enhancing flexibility and efficiency.

Antistatic Options

Available with antistatic properties to prevent the buildup of static electricity, ensuring the protection of sensitive electronic components.



SCREEN PRINTING FOR PCB MANUFACTURING

We specialize in providing comprehensive screen printing solutions for PCB (Printed Circuit Board) manufacturing. Our services range from supplying high-quality mesh fabric to professional stencil stretching, ensuring precise and reliable results for your PCB production needs.

Our Offerings:

High-Quality Mesh Fabric	Variety	We supply mesh fabric from Sefar Mesh, a leading manufacturer based in Switzerland, known for its exceptional durability and consistency.
	Scalability	Offering a wide range of mesh counts and materials to suit various screen printing requirements, ensuring optimal ink transfer and resolution
Stencil Stretching Service	Precision Stretching	Utilizing advanced techniques and equipment to stretch stencils with the utmost accuracy, ensuring even tension and stability.
	Customization	Tailored stretching services to meet specific customer requirements, enhancing the performance and longevity of your stencils.

Advantages of Our Services:

Superior Quality Control: By collaborating with Sefar Mesh, we guarantee the highest quality mesh fabric, ensuring reliable and precise screen printing results.

Expertise: Our team of experienced professionals is dedicated to providing top-notch services, leveraging their extensive knowledge in screen printing and PCB manufacturing.

Comprehensive Solutions: From supplying mesh fabric to stretching stencils, we offer a complete range of services, streamlining your PCB production process.

Enhanced Performance: Our high-quality materials and precision services contribute to better ink deposition, finer detail, and improved print quality on your PCBs.

Customer Support: We provide exceptional customer service, assisting you with technical inquiries, customization needs, and after-sales support.



TECHNICAL PLASTIC PROCESSING

SEPRO provides solutions from the design to manufacturing of precision processing tools and jigs made from high-quality technical plastics.

These products are specifically engineered for use in cleanroom environments, ensuring optimal performance and compliance with stringent cleanroom standards.

Features

Technical Plastic Materials: Utilized high-grade, non-contaminating plastics that are ideal for cleanroom use, such as PEEK, PTFE, POM

Precision Engineering: Manufactured to exacting tolerances to ensure the highest levels of accuracy and repeatability.

Chemical Resistance: Excellent resistance to a wide range of chemicals, ensuring durability and longevity in harsh cleanroom conditions.

Lightweight Design: Easy to handle and maneuver, reducing operator fatigue and increasing efficiency.

Customization: Tailored solutions to meet specific customer requirements, ensuring optimal fit and functionality for your unique applications.



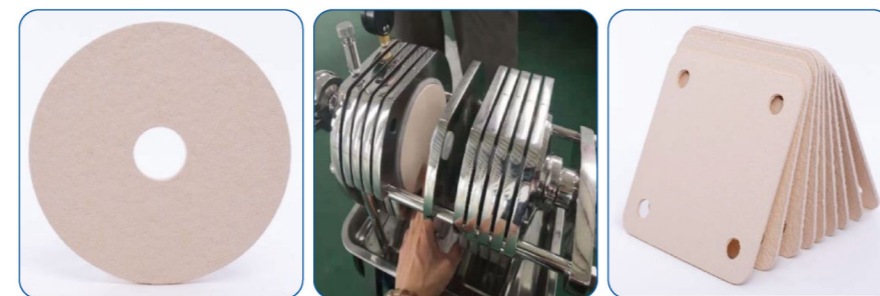
FILTRATION SOLUTION

We provide filtration solutions for the Pharmaceutical and Beverage industry, offering both high filtration efficiency and cost savings. Our products consistently maintain high quality standards.

- Benefits**
- Production cost saving.
 - High filtration efficiency.
 - Consistent quality.
 - Food grade standard.
 - 24/7 Technical support.
 - Continuous improvement.
 - Quick deliveries from stock.

FILTER PAPER

- Type of Filter** Filter sheet, Filter pad, Filter roll...
- Material** Cellulose, Cellulase Enzyme, Other natural fibers, Diatomaceous earth, Activated carbon
- Type of Ring** 0.1, 0.2, 0.4, 0.6, 0.8, 1, 2, 3, 6, 9, 15, 20 micron,...
- Application** Clarifying filtration, Fine filtration, Germ removing filtration



FILTER CLOTH

- Type of Filter** Fluid bed dryer, Filter press, Leaf Filter, Disc Filter,...
- Material** Polypropylene, Polyester, Nylon, PBT,...
- Weave type** Plain, PRD, Twill, Satin, DLW, Oxford,...



LIQUID FILTER BAG

- Material** Felt Polyester, Felt Polypropylene, Nylon mesh
- Micron rating** 0.2, 0.5, 1, 5, 10, 25, 50, 100, 200, 300 micron,...
- Type of Ring** Plastic, SS304, Non-collar,...
- Type of Seam** Welded, Sewn.

Sizes - Parameters

Size	Filtering surface	Max. Flow rate
01: 180 x 430 mm	01: 0.25 m ²	01: 20 m ³ /h.
02: 180 x 810 mm	02: 0.50 m ²	02: 40 m ³ /h.
03: 105 x 230 mm	03: 0.09 m ²	03: 06 m ³ /h.
04: 105 x 380 mm	04: 0.20 m ²	04: 12 m ³ /h.



FILTER CARTRIDGE

- Type of Filter** Felt Polyester, Felt Polypropylene, Nylon mesh
- Material** 0.2, 0.5, 1, 5, 10, 25, 50, 100, 200, 300 micron,...
- Micron Rating** Plastic, SS304, Non-collar,...
- Type of Endcaps** Welded, Sewn.
- Type of O-ring** Silicone, EPDM, Buna N, Viton, Teflon,...
- Length of Filter** 5, 10, 20, 30, 40 inches

