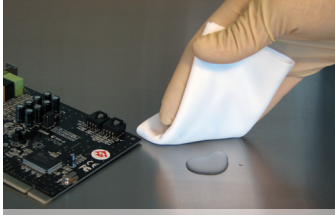
VALUTEK®

INNOVATIVE SOLUTIONS FOR CRITICAL ENVIRONMENTS

CATALOG

Version 2018


Wipers


Gloves


Apparel


Glove Liners


Adhesive Mats

Cleaning & Maintenance


Documentation

ESD

Valutek - Keeping it clean since 1988

Valutek has been servicing the controlled environment needs for thousands of organizations in the life sciences, advanced material and academia since 1988. Our innovative one-source shopping model eliminates the needs to coordinate multiple manufacturers, invoices and contacts - one call does it all. Valutek offers our clients best-in-class products and exceptional customer service. Valutek does not just meet your demands - we consistently exceed them, and has fostered a culture of continuous improvement. Valutek has built our reputation on quality, performance, dedication and knowledge, providing our clients with a trusted business partner you can count on for years to come.

Cleanroom Classification Standards

ISO 14644-1	FED STD 209E	
ISO Class	English	Metric
1		
2		
3	1	M1.5
4	10	M2.5
5	100	M3.5
6	1,000	M4.5
7	10,000	M5.5
8	100,000	M6.5
9		

The convenience and simplicity of one-source shopping

Valutek understands that you have less time and more responsibilities than ever before. Supplying your controlled environments has to be fast and easy. That's why we've built our company around your needs with 24/7 web-based ordering and online tracking/confirmation. When you have questions, your answers are only one click, email, or phone call away with 24/5-telephone support and online product data sheets.

Knowledgeable, consistent industry leadership

Since 1988, we have been committed to sharing and enhancing knowledge in the contamination control arena. Valutek is a founding sponsor of the Global Society for Contamination Control (http://gsfcc.org), an independent organization focused on advancing contamination control through knowledge exchange and collaboration. In addition, Valutek is an active participant in the leading professional organizations, (IEST, ESDA, INDA, ASTM) and a technical contributor to the leading conferences (SEMICON, Interphex, MDM).

Proven technology leader focused on quality and performance

Before our products meet your own stringent requirements, they need to meet ours. Valutek is the only manufacturer to provide ongoing independent testing, performed at GSFCC's laboratory SUNY POLYTECHNIC. Our close attention to quality control and commitment to continuous improvement ensures that you will always receive the highest quality products.

Agile, trusted partner dedicated to value innovation

We are your trusted partner, focused on helping your organization succeed. Along with our commitment to one-source convenience, Valutek's service commitment permeates all aspects of our organization, and is dedicated to only one mission: serving your critical environment needs. Our in-house client service team of knowledgeable, friendly professionals responds to your requests quickly, from order tracking to technical product questions to certificate of compliance requests.

70% of cleanroom contamination is operator based

Valutek eliminates contamination, enhances yield and reduces non-compliant product exposure at lower operating cost.

Three product lines engineered for your specific critical environment

NanoTek™
ISO 3-4 (Class 1- 10)

MicroTek™
ISO 5-6 (Class 100- 1.000)

MacroTek™
ISO 7+ (Class 10.000+)

*Valutek makes it easy for you to pick the right products for your controlled environment.
Look for these symbols [ ]next to each product type.

valutek.com | 602.761.2233 | USA • Malaysia • China

Sponsor of gsfcc.org & critical-tips.com

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Order Information

Interested in the item and want to know more?

Simply click the PDF icon next to the item title to access the product data sheet for detailed information regarding the product specifications and performance.

How to purchase?

If you are interested in one specific product, just click on the hyperlinked part number and it will lead you directly to the product purchase page on our website, from there you can instantly place your order and check out online.

Could not access the item through hyperlink?

Some items are not hyperlinked due to they are Valutek's special order products. If you are interested in purchasing these items, please click the below contact information to speak with one of our technically competent account executives.

Questions and special needs?

For bulk purchase and contracted agreements, please contact Valutek directly for negotiated price and other related benefits. If you have any questions regarding our products, please do not hesitate to contact us. Valutek is always here to assit and ensure that your critical environment has the right consumables.

To place an order please call our Sales & Customer Service hotline at 602.761.2233
Fax orders: 602.252.1972

In addition, you can email questions to us at orderdesk@valutek.com
As always, we can be contacted at 1.800.763.1250 from 6:30 am - 5:00 pm Mountain Standard time

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Wipers

Eliminate Contamination Safely

Non-woven
Cotton
Polyester
Nylon
Microfiber
Pre-wetted

Wiper Selection Guide

Cleanroom Wipers

Wipers are used to remove contamination in both general facility/ environment cleaning and critical product/process cleaning. They are a high-visibility item in the controlled environment because they are used to clean all surfaces. A few examples include: wiping operators' gloves; wiping cart wheels as they enter the fab; wiping the inner protective bags that contain production supplies; cleaning work station surfaces; cleaning production equipment and final wipe down of finished product.

Important attributes of wipers include substrate, edge treatment, size, durability, absorbency and packaging.

Wiper Substrates

Engineered Fabric

This general-purpose engineered fabric is a blend of cellulose and polyester fibers that combine the highly absorbent properties of a natural fiber with the cleanliness and strength of a synthetic.

Cotton

Woven cotton wipers can be used on high-temperature surfaces that would likely melt synthetic or blended wipers. Formed from long staple cotton fiber, these wipers are strong and durable as well as very absorbent in aqueous solutions.

Polyester

One-ply and two-ply 100% continuous filament knit synthetic polyesters low in particulates and extractable, high in durability and strength, and are recommended for removal of dry particulates and contaminants. The two-ply polyester is more absorbent than one-ply polyester because of its quilted texture's ability to retain liquids. Perfectly suited for ultra-clean environments.

Nylon

100% continuous filament knit synthetic nylon is very strong and abrasion resistant. Constructed in a similar manner to polyester, the advantage of nylon is in its heat resistance and strength.

Microfiber

This fabric is a blend of polyester and knitted nylon. Microfiber increases the surface area, which provides superior wiping efficiency and absorptive performance The silky texture of microfiber is designed for delicate/scratch sensitive surfaces.

Pre-Wetted

Pre-wetted wipers offer the convenience and time savings of not having to pre-mix and measure chemicals for use with wipers. Packaged in a solvent safe container in which a predetermined amount of solvent has already been added. The operator simply opens the container and pulls out a wiper that is ready to be used.

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Wiper Selection Guide

Wiper Substrate Performance

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

* - Poor + Good ++ Better +++ Excellent ++++ Best

Edge Treatment Options

The perimeter of the wiper is the primary contaminant source. For example, polyester wipers made from the same fabric can have drastically different levels of contamination based on the way its edges are cut and finished. The predominant wiper edge treatments are: cold knife cut, laser seal, ultrasonic seal and pressure heat seal.

Cold Knife Cut
A steel blade is used to cut the fabric. This method can leave certain amount of fibers on the wiper, and can lead to particulate contamination as the wiper is used.

Laser Seal
A laser cuts and seals edges using heat. This edge treatment is cleaner than the cold knife cut edge treatment because all the fiber ends are melted. The laser sealed edge is thicker than the substrate.

Ultrasonic Seal
Ultrasonic seal is superior to laser seal because it delivers a softer edge with lower carbon levels. An ultrasonic sealed edge is thinner than the substrate.

Pressure Heat Seal
Pressure heat seal is accomplished by using heat and pressure to form the border of the wiper. The edge is then ultrasonically sealed. This is the cleanest edge treatment.

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Wiper Substrate Selection Guide

Three Wiper Substrate Criteria:

Absorbency
The rate and amount of liquid that a wiper can hold, measured in milliliters (ml) per square meter. The measured rate and total absorption will determine a wiper's cleaning efficacy.

Extractables
The concentration of elements extracted from the wiper in an immersion test, measured in Parts Per Million (PPM) or Parts Per Billion (PPB). Certain elements (i.e. Silicone) can have more negative impact than other elements.

Particles
The number of particulates that are released by the material during testing. Polyester usually has the lowest particle rate, followed by nylon, poly-cellulose blend and cotton, which have the highest rate.

Wiper Substrate Selection Chart

	Engineered Fabric		Knitted Fabric				
	Poly/Cellulose	Rayon	Cotton	Nylon	Poyester	2-ply Poyester	Microfiber
Absorbency	+++	++	+++	+	+	+++	+++
Extractables	++	++	+	++	+++	+++	++
Particles	+	++	+	+++	+++	+++	++

+ Good ++ Better +++ Best

(Engineered Fabric: It is not made by weaving or knitting and does not require converting the fibers to yarn. The fabric is chemically pure and hydro entangled.
Knitted Fabric: This is a material with interlaced loops. It is constituted of a single rolled up thread by curling on itself.)

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Wiper Packaging

Valutek's wipers are packed in double poly bags, vacuum sealed, flat packed in carton boxes and with a carton liner.

All wipers are controlled environment compatible, lot traceable with retention samples held in Quality Control for 36 months from date of manufacturing.

Vacuum seal benefit: better storage, no wiper fiber release, no ESD issue.

MacroTek™
ISO 7+ (Class 10.000+)

MicroTek™
ISO 5-6 (Class 100- 1.000)

NanoTek™
ISO 3-4 (Class 1- 10)

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Spunlace Non-Woven Wiper PDF

- 55% cellulose and 45% polyester blend
- Basis weight: 68 g/m^2
- Cold knife cut edge
- Contains no chemical binders
- High absorbency and low abrasion resistance
- Chemically compatible with common cleaning and disinfecting solutions
- Low levels of extractable and moderate particle counts
- Available in a variety of sizes to suit most applications

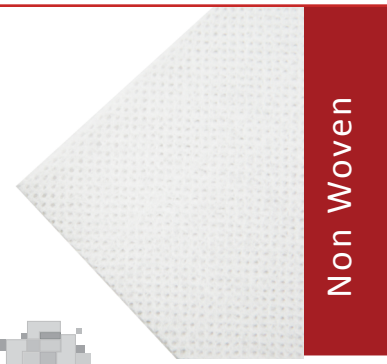
The spunlace non-woven wiper is recommended for use in a cleanroom Class 10,000+ (ISO 7+) critical environment. It is a highly absorbent wiper for general purpose and environmental / facility cleaning.

MacroTek
ISO 7+ (Class 10.000+)

ESD Static Dissipative

Part Number	Size		Packaging	Total/Case
VTSNTR-44	4" x 4"	10 cm x 10 cm	1200 ea/bag, 12 bags/case	14400 ea/case
VTSNTR-99	9" x 9"	23 cm x 23 cm	300 ea/bag, 12 bags/case	3600 ea/case
VTSNTR-1212	12" x 12"	30 cm x 30 cm	150 ea/bag, 10 bags/case	1500 ea/case
VTSNTR-1818	18" x 18"	46 cm x 46 cm	75 ea/bag, 10 bags/case	750 ea/case

Rayon Wiper PDF



- 100% rayon
- Cold knife cut edge
- Excellent absorbency
- High abrasive resistance
- Compatible with IPA and other common solvents

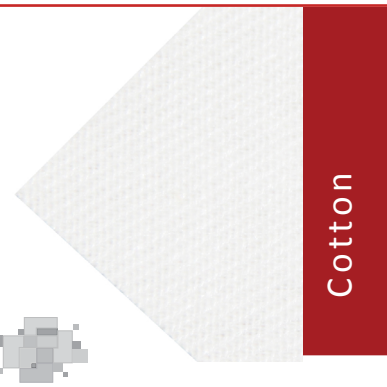
The rayon wiper is recommended for use in a cleanroom Class 10,000+ (ISO 7+) critical environment. It is a preferred choice for a wide variety of applications, such as laboratories, aerospace, defense electronics, biotech, semiconductor, circuit board and pharmaceutical device manufacturing facilities.

MacroTek
ISO 7+ (Class 10.000+)

Will Not Scratch

Part Number	Size		Packaging	Total/Case
VTRRA-2030	20" x 30"	50.8 cm x 76.2 cm	1000 ea/bag, 1 bag/case	1000 ea/case

Twill Patterned Cotton Wiper PDF



- 100% cotton
- Cold knife cut edge
- Excellent absorbency
- High heat resistance enables high temperature tolerance
- Compatible with IPA and other common solvents

The cotton wiper is recommended for use in a cleanroom Class 10,000+ (ISO 7+) critical environment. It is ideal for high heat settings such as high purity welding. It is also commonly used for cleaning, polishing and burnishing magnetic media disk surfaces, and the cleanup of aqueous and organic solvent spills.

MacroTek
ISO 7+ (Class 10.000+)

Part Number	Size		Packaging	Total/Case
VTTPC-99	9" x 9"	23 cm x 23 cm	150 ea/bag, 10 bags/case	1500 ea/case
VTTPC-1212	12" x 12"	30 cm x 30 cm	75 ea/bag, 10 bags/case	750 ea/case

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Light-Weight Polyester Wiper PDF

- 100% continuous filament, double-knit polyester fiber
- Cold knife cut edge
- Basis weight: 128 g/m^2
- Moderate absorbency and abrasion resistance
- Chemical compatible with IPA and other common solvents
- Low levels of particulate and extractable counts
- Light weight material reduces both actual cost and the landfill waste impact
- Available in a variety of sizes to suit most applications

This wiper is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is commonly used for a wide variety of applications such as spill control, general wiping, breakdown cleaning in fab and suite construction, cleaning medical device products, cleaning and burnishing magnetic media surfaces, and wiping sensitive surfaces.

MicroTek
ISO 5-6 (Class 100- 1.000)

Part Number	Size		Packaging	Total/Case
VTPNWLW-99	9” x 9”	23 cm x 23 cm	150 ea/bag, 8 bags/case	1200 ea/case
VTPNWLW-1212	12” x 12”	30 cm x 30 cm	100 ea/bag, 3 bags/case	300 ea/case

Polyester

Standard Weight Polyester Wiper PDF

- 100% continuous filament, double-knit polyester fiber
- Basis weight: 135 g/m^2
- Cold knife cut edges
- Chemically compatible with IPA and other common solvents
- Moderate absorbency and abrasion resistance
- Low levels of particulate and extractable counts
- Available in a variety of sizes to suit most applications

This wiper is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is commonly used for breakdown cleaning in fab and suite construction, equipment wrapping, wiping down, stencil and other print roll cleaning, medical device product cleaning, and autoclavable/sterile product cleaning for aseptic applications.

MicroTek
ISO 5-6 (Class 100- 1.000)

Part Number	Size		Packaging	Total/Case
VTPNW-44	4” x 4”	10 cm x 10 cm	600 ea/bag, 8 bags/case	4800 ea/case
VTPNW-66	6” x 6”	15 cm x 15 cm	150 ea/bag, 8 bags/case	1200 ea/case
VTPNW-99	9” x 9”	23 cm x 23 cm	150 ea/bag, 8 bags/case	1200 ea/case
VTPNW-1212	12” x 12”	30 cm x 30 cm	75 ea/bag, 5 bags/case	375 ea/case
VTPNW-2020	20” x 20”	51 cm x 51 cm	100 ea/bag, 3 bags/case	300 ea/case
VTPNW-2144	21” x 24”	53cm x 112 cm	75 ea/bag, 2 bags/case	150 ea/case

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Laser-Sealed Polyester Wiper PDF

- 100% continuous filament, double-knit polyester fiber
- Basis weight: 135 g/m^2
- Laser sealed (thermally sealed) edge for reduced fiber contamination
- Moderate absorbency and abrasion resistance
- Chemically compatible with IPA and other common solvents
- Extremely low levels of particulate and extractable counts
- Available in a variety of sizes to suit most applications

This wiper is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment. It is commonly used for a wide variety of applications such as cleaning medical device products; cleaning video displays and instrument panels; and general wiping and cleaning in semiconductor and microelectronics.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size		Packaging	Total/Case
VTPNWLS-44	4” x 4”	10 cm x 10 cm	600 ea/bag, 8 bags/case	4800 ea/case
VTPNWLS-66	6” x 6”	15 cm x 15 cm	600 ea/bag, 5 bags/case	3000 ea/case
VTPNWLS-99	9” x 9”	23 cm x 23 cm	150 ea/bag, 8 bags/case	1200 ea/case
VTPNWLS-1212	12” x 12”	30 cm x 30 cm	75 ea/bag, 10 bags/case	750 ea/case
VTPNWLS-1818	18” x 18”	46 cm x 46 cm	40 ea/bag, 12 bags/case	480 ea/case
VTPNWLS-2020	20” x 20”	51 cm x 51 cm	100 ea/bag, 2 bags/case	200 ea/case
VTPNWLS-2626	26” x 26”	66 cm x 66 cm	50 ea/bag, 3 bags/case	150 ea/case

Polyester

Pressure-Heat Sealed Polyester Wiper PDF

- 100% continuous-filament double-knit polyester fiber
- Basis Weight: 135 g/m^2
- Pressure-heat sealed edge for lowest available fiber contamination
- High absorbency and abrasion resistance
- Excellent chemical compatibility with IPA, Acetone and other common solvents
- Ultra low levels of particulate and extractable counts

This wiper is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment. It is designed for critical processing applications where the highest level of contamination control is required. It is also commonly used for cleaning medical device products; applying, removing, cleaning and disinfecting solutions; is steam autoclavable for aseptic environments; and used for flat panel, optics cleaning, and chips multi-processing (CMP).

NanoTek
ISO 3-4 (Class 1-10)

ESD Static Dissipative

Will Not Scratch

Part Number	Size		Packaging	Total/Case
VTPNWPHS-99	9” x 9”	23 cm x 23 cm	150 ea/bag, 8 bags/case	1200 ea/case

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Polyester

Ultrasonic Sealed Polyester Wiper PDF

- 100% continuous-filament double-knit polyester fiber
- Basis weight: 135 g/m^2
- Ultrasonic sealed edge for reduced fiber contamination
- Moderate absorbency and abrasion resistance
- Excellent chemical compatibility with IPA and other common solvents
- Extremely low levels of particulate and extractable counts
- Available in a variety of sizes to suit most applications

This wiper is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment. It is designed for critical processing applications where the highest level of contamination control is required. It is also commonly used for cleaning medical device products; applying, removing, cleaning and disinfecting solutions; is steam autoclavable for aseptic environments; and used for flat panel, optics cleaning, and chips multi-processing (CMP).

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size		Packaging	Total/Case
VTPNWUS-44	4” x 4”	10 cm x 10 cm	600 ea/bag, 8 bags/case	4800 ea/case
VTPNWUS-99	9” x 9”	23 cm x 23 cm	150 ea/bag, 8 bags/case	1200 ea/case
VTPNWUS-1212	12” x 12”	30 cm x 30 cm	75 ea/bag, 10 bags/case	750 ea/case

Polyester

2-Ply Ultrasonic Sealed Polyester Wiper PDF

- 100% continuous filament polyester knit
- Basis weight: 260 g/m^2
- 2-ply construction with unique pattern and knitting structure provides the highest cleanliness
- Ultrasonic sealed edge for with reduced fiber contamination
- Highest possible absorbency in a polyester substrate material
- Chemically compatible with IPA and other solvents
- Critically low levels of particulate and extractable counts
- Available in a variety of sizes to suit most applications

This wiper is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment. It is designed for critical processing applications where high absorbency and low particles are required. It is commonly used for spill control, large volume cleaning, sterilizing, disinfecting, cleaning surfaces, and is product equipment and steam autoclavable for aseptic environments.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size		Packaging	Total/Case
VT2PNWUS-46	4” x 6”	10 cm x 15 cm	600 ea/bag, 6 bags/case	3600 ea/case
VT2PNWUS-99	9” x 9”	23 cm x 23 cm	100 ea/bag, 8 bags/case	800 ea/case
VT2PNWUS-1212	12” x 12”	30 cm x 30 cm	100 ea/bag, 8 bags/case	800 ea/case
VT2PNWUS-1818	18” x 18”	46 cm x 46 cm	20 ea/bag, 10 bags/case	200 ea/case

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ESD Polyester Wiper PDF

Polyester

- 100% continuous filament, double-knit polyester fiber
- Basis weight: 155 g/m^2
- Cold knife cut edge
- Chemically compatible with IPA and other common solvents
- Excellent absorbency and abrasion resistance
- Low levels of particulate and extractable counts
- Carbon fiber woven to provide ESD compliance

This wiper is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is commonly used in a wide variety of applications, such as optics and LCD screen cleaning, electronic manufacturing, optical cleaning and pharmaceutical manufacturing.

MicroTek ISO 5-6 (Class 100- 1.000)

ESD Static Dissipative

Part Number	Size		Packaging	Total/Case
VTPNWESD-99	9” x 9”	23 cm x 23 cm	150 ea/bag, 8 bags/case	1200 ea/case

Nylon Knit Wiper PDF

Nylon

- 100% continuous filament, double-knit nylon fiber
- Cold knife cut edge
- Excellent tensile strength, elasticity and durability
- Low levels of particulate and extractable counts
- Chemically compatible with common cleaning and disinfecting solutions
- Available in a variety of sizes to suit most applications

This wiper is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. The tough and abrasive surface of nylon makes this wiper a great selection for cleaning stubborn contaminants.

MicroTek ISO 5-6 (Class 100- 1.000)

Will Not Scratch

Part Number	Size		Packaging	Total/Case
VTNNW-99	9” x 9”	23 cm x 23 cm	150 ea/bag, 8 bags/case	1200 ea/case
VTNNW-1212	12” x 12”	30 cm x 30 cm	100 ea/bag, 10 bags/case	1000 ea/case

Pressure-Heat Sealed Microfiber Wiper PDF

Microfiber

- 70% polyester and 30% nylon knitted fiber
- Basis weight: 200 g/m^2
- Pressure heat sealed edges for lowest available fiber contamination
- Microfiber increases the surface area which provides superior wiping efficiency and sorptive performance
- Chemically compatible with IPA and other common solvents
- Low levels of particulate and extractable counts
- Soft and silky hand feel for sensitive surfaces

This wiper is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is designed for scratch sensitive surfaces, such as occur in display and semiconductor industries. It is also commonly used for cleaning precise optical machinery and tools, cleaning a delicate process in critical cleanrooms, and for applying and removing cleaning and disinfecting solutions.

MicroTek ISO 5-6 (Class 100- 1.000)

Part Number	Size		Packaging	Total/Case
VTMFWPHS-99	9” x 9”	23 cm x 23 cm	10 ea/bag, 10 bags/case	100 ea/case

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Ultrasonic-Sealed Low Texture Microfiber Wiper PDF

- 75% continuous filament polyester and 25% nylon knitted fiber
- Ultrasonic sealed edge for reduced fiber contamination
- Low textured soft material suitable for sensitive wiping surfaces
- Excellent absorbency and high abrasion resistance
- Chemical compatibility with IPA, Acetone and other common solvents
- Low levels of particulates and extractable counts

This wiper is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is also ideal for wiping objects in a wide variety of applications, such as watch, optic and screen display, touching screen, LCD Industrial wiping and high precision device and equipment maintenance.

MicroTek
ISO 5-6 (Class 100- 1.000)

Part Number	Size		Packaging	Total/Case
VTMFWLTUS-99	9” x 9”	23 cm x 23 cm	100 ea/bag, 10 bags/case	1000 ea/case

Ultrasonic-Sealed Ultrawiper PDF

- 90% continuous filament polyester and 10% nylon knitted fiber
- Ultrasonic sealed edge for reduced fiber contamination
- High absorbency and abrasion resistance
- Chemical compatibility with IPA, Acetone and other common solvents
- Moderate low levels of particulates and extractable counts

This wiper is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is ideal for wiping and cleaning sensitive surfaces. It is also commonly used for removing oil contamination, wiping touch panels, medical device lenses, PCB’s, SMT, and hard disk applications.

MicroTek
ISO 5-6 (Class 100- 1.000)

Part Number	Size		Packaging	Total/Case
VTPNUWUS-99	9” x 9”	23 cm x 23 cm	100 ea/bag, 10 bags/case	1000 ea/case

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Pre-Wetted Spunlace Non-Woven Wiper Pail PDF

- 55% cellulose and 45% polyester blend with cold knife cut edge
- Pre-wetted with consistent IPA/DI Water concentrations and saturation levels
- Packaged in a re-usable pail container to prevent solvent evaporation
- Contains no chemical binders
- The pre-wet solution increases both cleaning efficiency and cleaning protocol consistency

This pre-wetted wiper is designed for use in wet cleaning of critical surfaces and products. Various IPA blend levels are ideal for removing different cleaning and disinfecting residues in regulated environments.

NanoTek
ISO 3-4 (Class 1-10)

REFILL AVAILABLE

Part Number	Size		IPA/DI H_20(%)	Packaging	Total/Case
VTSNTRI06-99	9" x 9"	23 cm x 23 cm	6/94	75 ea/pail, 2pails/case	150 ea/case
VTSNTRI10-99	9" x 9"	23 cm x 23 cm	10/90	75 ea/pail, 2pails/case	150 ea/case
VTSNTRI70-99	9" x 9"	23 cm x 23 cm	70/30	75 ea/pail, 2pails/case	150 ea/case
VTSNTRI90-99	9" x 9"	23 cm x 23 cm	90/10	75 ea/pail, 2pails/case	150 ea/case
VTSNTRI99-99	9" x 9"	23 cm x 23 cm	99/1	75 ea/pail, 2pails/case	150 ea/case

Pre-Wetted

Pre-Wetted Spunlace Non-Woven Wiper Refill Pack PDF

- 55% cellulose and 45% polyester blend with cold knife cut edge
- Pre-wetted with consistent IPA/DI Water concentrations and saturation levels
- Packaged in refill bags for pre-wetted spunlace non-woven wiper pail
- Contains no chemical binders
- The pre-wet solution increases both cleaning efficiency and cleaning protocol consistency

This pre-wetted wiper is designed for use in wet cleaning of critical surfaces and products. Various IPA blend levels are ideal for removing different cleaning and disinfecting residues in regulated environments.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size		IPA/DI H_20(%)	Packaging	Total/Case
VTSNTRI06R-99	9" x 9"	23 cm x 23 cm	6/94	75 ea/bag, 18 bags/case	1350 ea/case
VTSNTRI10R-99	9" x 9"	23 cm x 23 cm	10/90	75 ea/bag, 18 bags/case	1350 ea/case
VTSNTRI70R-99	9" x 9"	23 cm x 23 cm	70/30	75 ea/bag, 18 bags/case	1350 ea/case
VTSNTRI90R-99	9" x 9"	23 cm x 23 cm	90/10	75 ea/bag, 18 bags/case	1350 ea/case
VTSNTRI99R-99	9" x 9"	23 cm x 23 cm	99/1	75 ea/bag, 18 bags/case	1350 ea/case

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Pre-Wetted Polyester Wiper Pail PDF

- 100% continuous filament, double-knit polyester fiber with cold knife cut edge
- Pre-wetted with consistent IPA/DI Water concentrations and saturation levels
- Packaged in a re-usable pail container to prevent solvent evaporation
- Very low levels of particles, fibers, ions and extractables
- High abrasion resistance
- The pre-wet solution increases both cleaning efficiency and cleaning protocol consistency

This pre-wetted wiper is designed for use in wet cleaning of critical surfaces where control of flammable solvents and flammable solvent concentrations is required. Various IPA blend levels are ideal for removing different cleaning and disinfecting residues in regulated environments.

NanoTek
ISO 3-4 (Class 1-10)

REFILL AVAILABLE

Part Number	Size		IPA/DI H_20(%)	Packaging	Total/Case
VTPNWSI05-99	9" x 9"	23 cm x 23 cm	5/95	150 ea/pail, 2pails/case	300 ea/case
VTPNWSI10-99	9" x 9"	23 cm x 23 cm	10/90	150 ea/pail, 2pails/case	300 ea/case
VTPNWSI50-99	9" x 9"	23 cm x 23 cm	50/50	150 ea/pail, 2pails/case	300 ea/case
VTPNWSI70-99	9" x 9"	23 cm x 23 cm	70/30	150 ea/pail, 2pails/case	300 ea/case
VTPNWSI90-99	9" x 9"	23 cm x 23 cm	90/10	150 ea/pail, 2pails/case	300 ea/case
VTPNWSI99-99	9" x 9"	23 cm x 23 cm	99/1	150 ea/pail, 2pails/case	300 ea/case
VTPNWSI100-99	9" x 9"	23 cm x 23 cm	100/0	150 ea/pail, 2pails/case	300 ea/case

Pre-Wetted Polyester Wiper Refill Pack PDF

- 100% continuous filament, double-knit polyester fiber with cold knife cut edge
- Pre-wetted with consistent IPA/DI Water concentrations and saturation levels
- Packaged in refill bags for pre-wetted polyester wiper pail
- Very low levels of particles, fibers, ions and extractables
- High abrasion resistance
- The pre-wet solution increases both cleaning efficiency and cleaning protocol consistency

This pre-wetted wiper is designed for use in wet cleaning of critical surfaces where control of flammable solvents and flammable solvent concentrations is required. Various IPA blend levels are ideal for removing different cleaning and disinfecting residues in regulated environments.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size		IPA/DI H_20(%)	Packaging	Total/Case
VTPNWSI05R-99	9" x 9"	23 cm x 23 cm	5/95	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWSI10R-99	9" x 9"	23 cm x 23 cm	10/90	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWSI50R-99	9" x 9"	23 cm x 23 cm	50/50	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWSI70R-99	9" x 9"	23 cm x 23 cm	70/30	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWSI90R-99	9" x 9"	23 cm x 23 cm	90/10	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWSI99R-99	9" x 9"	23 cm x 23 cm	99/1	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWSI100R-99	9" x 9"	23 cm x 23 cm	100/0	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case

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Pre-Wetted Laser-Sealed Polyester Wiper Pail PDF

- 100% continuous filament, double-knit polyester fiber
- Laser sealed (thermally sealed) edge for reduced fiber contamination
- Pre-wetted with consistent IPA/DI Water concentrations and saturation levels
- Packaged in a re-usable pail container to prevent solvent evaporation
- Very low levels of particles, fibers, ions and extractables
- The pre-wet solution increases both cleaning efficiency and cleaning protocol consistency

This pre-wetted wiper is designed for use in wet cleaning of critical surfaces where control of flammable solvents and flammable solvent concentrations is required. Various IPA blend levels are ideal for removing different cleaning and disinfecting residues in regulated environments.

NanoTek
ISO 3-4 (Class 1-10)

REFILL AVAILABLE

Part Number	Size		IPA/DI H_20(%)	Packaging	Total/Case
VTPNWLSI06-99	9" x 9"	23 cm x 23 cm	6/94	150 ea/pail, 2pails/case	300 ea/case
VTPNWLSI10-99	9" x 9"	23 cm x 23 cm	10/90	150 ea/pail, 2pails/case	300 ea/case
VTPNWLSI50-99	9" x 9"	23 cm x 23 cm	50/50	150 ea/pail, 2pails/case	300 ea/case
VTPNWLSI70-99	9" x 9"	23 cm x 23 cm	70/30	150 ea/pail, 2pails/case	300 ea/case
VTPNWLSI70-1212	12" x 12"	30 cm x 30 cm	70/30	120 ea/pail, 2pails/case	240 ea/case
VTPNWLSI90-99	9" x 9"	23 cm x 23 cm	90/10	150 ea/pail, 2pails/case	300 ea/case
VTPNWLSI99-99	9" x 9"	23 cm x 23 cm	99/1	150 ea/pail, 2pails/case	300 ea/case
VTPNWLSI100-99	9" x 9"	23 cm x 23 cm	100/0	150 ea/pail, 2pails/case	300 ea/case

Pre-Wetted

Pre-Wetted Laser-Sealed Polyester Wiper Refill Pack PDF

- 100% continuous filament, double-knit polyester fiber
- Laser sealed (thermally sealed) edge for reduced fiber contamination
- Pre-wetted with consistent IPA/DI Water concentrations and saturation levels
- Packaged in refill bags for pre-wetted laser-sealed polyester wiper pail
- Very low levels of particles, fibers, ions and extractables
- The pre-wet solution increases both cleaning efficiency and cleaning protocol consistency

This pre-wetted wiper is designed for use in wet cleaning of critical surfaces where control of flammable solvents and flammable solvent concentrations is required. Various IPA blend levels are ideal for removing different cleaning and disinfecting residues in regulated environments.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size		IPA/DI H_20(%)	Packaging	Total/Case
VTPNWLSI06R-99	9" x 9"	23 cm x 23 cm	6/94	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWLSI10R-99	9" x 9"	23 cm x 23 cm	10/90	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWLSI50R-99	9" x 9"	23 cm x 23 cm	50/50	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWLSI70R-99	9" x 9"	23 cm x 23 cm	70/30	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWLSI90R-99	9" x 9"	23 cm x 23 cm	90/10	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWLSI99R-99	9" x 9"	23 cm x 23 cm	99/1	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWLSI100R-99	9" x 9"	23 cm x 23 cm	100/0	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case

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Pre-Wetted Pressure-Heat Sealed Polyester Wiper Pail PDF

- 100% continuous-filament double-knit polyester fiber
- Pressure-heat sealed edge for lowest available fiber contamination
- Pre-wetted with consistent IPA/DI Water concentrations and saturation levels
- Packaged in a re-usable pail container to prevent solvent evaporation
- Very low levels of particles, fibers, ions and extractables
- The pre-wet solution increases both cleaning efficiency and cleaning protocol consistency

This pre-wetted wiper is designed for use in wet cleaning of critical surfaces where control of flammable solvents and flammable solvent concentrations is required. Various IPA blend levels are ideal for removing different cleaning and disinfecting residues in regulated environments.

NanoTek
ISO 3-4 (Class 1-10)

REFILL AVAILABLE

Part Number	Size		IPA/DI H_20(%)	Packaging	Total/Case
VTPNWPHSI10-99	9" x 9"	23 cm x 23 cm	10/90	150 ea/pail, 2pails/case	300 ea/case
VTPNWPHSI50-99	9" x 9"	23 cm x 23 cm	50/50	150 ea/pail, 2pails/case	300 ea/case
VTPNWPHSI70-99	9" x 9"	23 cm x 23 cm	70/30	150 ea/pail, 2pails/case	300 ea/case
VTPNWPHSI90-99	9" x 9"	23 cm x 23 cm	90/10	150 ea/pail, 2pails/case	300 ea/case
VTPNWPHSI100-99	9" x 9"	23 cm x 23 cm	100/0	150 ea/pail, 2pails/case	300 ea/case

Pre-Wetted

Pre-Wetted Pressure-Heat Sealed Polyester Wiper Refill Pack PDF

- 100% continuous-filament double-knit polyester fiber
- Pressure-heat sealed edge for lowest available fiber contamination
- Pre-wetted with consistent IPA/DI Water concentrations and saturation levels
- Packaged in refill bags for pre-wetted pressure-heat sealed polyester wiper pail
- Very low levels of particles, fibers, ions and extractables
- The pre-wet solution increases both cleaning efficiency and cleaning protocol consistency

This pre-wetted wiper is designed for use in wet cleaning of critical surfaces where control of flammable solvents and flammable solvent concentrations is required. Various IPA blend levels are ideal for removing different cleaning and disinfecting residues in regulated environments.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size		IPA/DI H_20(%)	Packaging	Total/Case
VTPNWPHSI10R-99	9" x 9"	23 cm x 23 cm	10/90	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWPHSI50R-99	9" x 9"	23 cm x 23 cm	50/50	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWPHSI70R-99	9" x 9"	23 cm x 23 cm	70/30	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWPHSI90R-99	9" x 9"	23 cm x 23 cm	90/10	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWPHSI100R-99	9" x 9"	23 cm x 23 cm	100/0	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case

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Pre-Wetted Laser-Sealed Polyester Wiper in ESD Pouch PDF

- 100% continuous filament, double-knit polyester fiber
- Laser sealed (thermally sealed) edge for reduced fiber contamination
- Pre-wetted with a blend of 70% IPA and 30% DI water.
- Packaged in a resealable static shield bag for ESD sensitive environments
- Very low levels of particles, fibers, ions and extractables
- The pre-wet solution increases both cleaning efficiency and cleaning protocol consistency

This pre-wetted wiper is designed for use in wet cleaning of critical surfaces where control of flammable solvents and flammable solvent concentrations is required. It is also ideal for critical wiping applications where static control is paramount.

NanoTek
ISO 3-4 (Class 1-10)

ESD Static Dissipative

Part Number	Size		IPA/DI H_2O(%)	Packaging	Total/Case
VTPNWLSI70-99F	9” x 9”	23 cm x 23 cm	70/30	30 ea/pouch, 20 pouches/case	600 ea/case

Pre-Wetted

Pre-Wetted Pressure Heat-Sealed Polyester Wiper in Clear Pouch PDF

- 100% continuous filament, double-knit polyester fiber
- Pressure heat-sealed edge for reduced fiber contamination
- Pre-wetted with specified IPA/DI Water concentrations to a 38% saturation level
- Vacuum packed in a clear laminated, high barrier resealable zipper pouch for excellent product visibility, cleanliness and extended product shelf life.
- The pre-wet solution increases both cleaning efficiency and cleaning protocol consistency

This pre-wetted wiper is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment. It is designed for use in wet cleaning of critical surfaces where control of flammable solvents and flammable solvent concentrations is required. It is also ideal for critical wiping applications where static control is paramount.

NanoTek
ISO 3-4 (Class 1-10)

ESD Static Dissipative

Part Number	Size		IPA/DI H_2O(%)	Packaging	Total/Case
VTPNWPHSI70P-99	9” x 9”	23 cm x 23 cm	70/30	30 ea/pouch, 20 pouches/case	600 ea/case

Pre-Wetted

Pre-Wetted Ultrasonic Sealed Polyester Wiper in Clear Pouch PDF

- 100% continuous filament, double-knit polyester fiber
- Ultrasonic sealed edge for reduced fiber contamination
- Pre-wetted with specified IPA/DI Water concentrations to a 38% saturation level
- Vacuum packed in a clear laminated, high barrier resealable zipper pouch for excellent product visibility, cleanliness and extended product shelf life.
- The pre-wet solution increases both cleaning efficiency and cleaning protocol consistency

This pre-wetted wiper is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment. It is designed for use in wet cleaning of critical surfaces where control of flammable solvents and flammable solvent concentrations is required. It is also ideal for critical wiping applications where static control is paramount.

NanoTek
ISO 3-4 (Class 1-10)

ESD Static Dissipative

Part Number	Size		IPA/DI H_2O(%)	Packaging	Total/Case
VTPNWUSI70P-99	9” x 9”	23 cm x 23 cm	70/30	30 ea/pouch, 20 pouches/case	600 ea/case

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Gloves

Protect the most vital tools

PVC
Latex
Nitrile

Glove Selection Guide

Cleanroom Gloves

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.

Gloves serve a critical function inside a cleanroom because they make direct contact with both the product and the process.

Glove Substrates

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.

Polyvinylchloride (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 fit looser on an operator's hand than latex or nitrile, which can reduce dexterity.

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.

Glove Substrate Selection Chart

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

- Poor + Good ++ Better +++ Best

Glove Selection Guide

Five Glove Selection Criteria:

Particle Count

Numbers of particulate matter (contaminants) that comes off the gloves, typically measured in a dry test. Nitrile has the lowest amount of particles, followed by PVC, and latex has the highest particle count.

Extractable Count

The amount of elements extracted from the gloves in an immersion test, generally measured in Parts Per Billion (PPB) or Grams per Square Meter (g/m^2). 18 mega ohm DI H_2O washed nitrile has the lowest ionic counts, followed by PVC and latex.

Electrostatic Discharge (ESD) Properties

The capacity of a glove to dissipate, or conduct a static charge to a ground. Both PVC and nitrile exhibit excellent ESD qualities. Latex is insulative.

Dexterity

Latex gloves fit tight on the hand, but have no “memory” to conform to a specific hand shape. Nitrile’s memory (modulus) properties provide more comfort, but are lower in elasticity than latex. PVC has much lower dexterity and is recommended when tactile requirements are low.

Chemical Compatibility

Latex is a good choice for protection against acids. Nitrile has better resistance than latex to a broad range of chemicals and performs well with solvents and acids. PVC has poor acid and solvent based resistance and is best suited for a dry environment. Note: Thin-walled gloves are only intended for splash protection.

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Glove Sizing Chart

How to select the right glove size

To find your glove size, measure (in inches) around your palm indicated by picture A. Valutek indicates glove sizes by letter (XS, SM, MD, LG, XL, XXL), use the table below to find the equivalent translation.

Choose the letter size from the chart that is the closest to the number you measured. For example: if as a woman, your hand measures 7¾", then choose a size "L".

Picture A

Men's Glove Sizing Guide		
Size	Inch	Centimeter
XS	7"	18 cm
SM	7½"-8"	19-20 cm
MD	8½"-9"	22-23 cm
LG	9½"-10"	24-25 cm
XL	10½"-11"	26.5-28 cm
2X	11½"-12"	29-30.5 cm

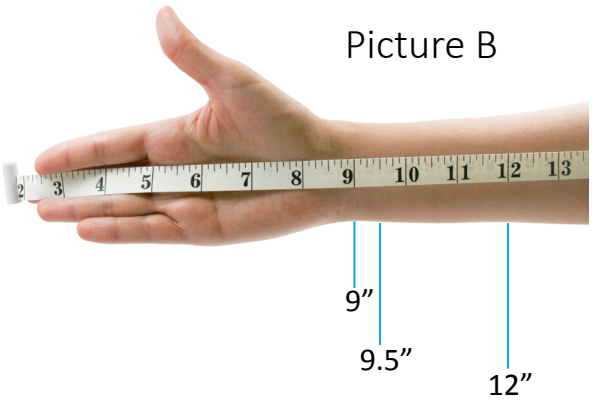
Women's Glove Sizing Guide		
Size	Inch	Centimeter
XS	5½"-6"	14-15 cm
SM	6"-6½"	15-17 cm
MD	7"-7½"	17.5-19 cm
LG	7½"-8"	19-20 cm
XL	8½"-9"	21.5-23 cm
2X	-	-

Choose the cuff length that you need

To determine the correct glove length you need, measure from the tip of the middle finger to where the cuff edge should be on forearm as shown in Picture B, then select the proper cuff and length.

Valutek offers three cuff lengths: 9", 9.5" and 12". The longer the length, the more added protection to your products.

Picture B



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Glove Chemical Compatibility Chart

Chemical	Nitrile	Latex	Vinyl
Acetaldehyde	●●●	●●●	●
Acetone	●	●●●	●●
Acetic Acid	●●●	●●●	●●●
Acetylene Gas	●●●●		
Aluminium Sulfate	●●●●		
Ammonium Hydroxide, Dilute	●●●●	●●●	●●●●
Ammonium Nitrate	●●●●		
Ammonium Sulfate	●●●●	●●●●	●●●●
Amyl Alcohol	●●●●		●●●●
Anline	●●●	●	●●
Anline Oil	●●●		
Animal Fats	●●●●		
Animal Oils	●●●●		
Antifreeze		●●●●	●●●●
Barium Sulfite	●●●●		
Beet Sugar Liquors	●●●●		
Benzyl Alcohol	●●●		
Borax	●●●●		
Boric Acid	●●●	●●●●	●●●●
BrakeFluid		●●●	●●●
Butyl Alcohol	●●●	●●●	●●●●
Butyle Cellusolve			●●●
Calcium Bisulfite	●●●●		
Calcium Chloride	●●●	●●●●	●●●●
Calcium Disulfide			●●●
Calcium Hydroxide	●●●	●●●●	●●●●
Calcium Hypochlorite	●●●		
Carbolic Acid	●●●●		
Carbon Dioxide	●●●●	●●●	●●●●
Castor Oil	●●●●	●●●●	●●●●
Caustic Potash	●●●●		
Caustic Soda	●●●●		
Chlorine Solution	●●●●		
Chromic Acid 30%	●●●		●●
Citric Acid	●●●●	●●●●	●●●●
Copper Chloride	●●●●		

Chemical	Nitrile	Latex	Vinyl
Copper Sulfate	●●●●		
Cotton Seed Oil	●●		
Cresol	●	●	●
Cupric Nitrate	●●●●		
Cyclohexane		●	●●●●
Cyclohexanol	●●●	●●	●●●
Dibutylphthalate		●●	
Dietylether		●●	
Di-n-amylamine			●●●●
Di-n-butymine			●●●●
Di-n-butyl Phthalate			●●●●
Di-n-octyle Phthalate			
Diallylamine			●●●
Diesel Fuel		●	●●●
Diethanolamine			●●●●
Diethylamine		●●	●●
Dimethylsulphoxide		●	●
Diisobutyl Ketone		●	●
Diisobutyllamine			●●●●
Dimethyl Ether			●●●
Dimethyl Sulfoxide			●●●
Epoxy Resins, Dry	●●●●	●	●
Ethane Gas	●●●●		
Ethanol	●●●	●●●●	●●●●
Ethyl Acetate		●●	●
Ethyl Alcohol	●●●●		
Ethyl Ether		●	●●●
Ethylene Glycol	●●●●	●●●●	●●●●
Fatty Acids	●●●●		
Ferric Chloride	●●●●	●●●●	●●●●
Ferrous Sulfate	●●●●		
Formaldehyde	●●●		●●●●
Formic Acid	●●●●	●●●	●●●
Freon 113 Or Tf	●●●●	●	●●●●
Gasoline, 40-50%		●	●●●●
Glucose	●●●●	●●●●	●●●●

Chemical	Nitrile	Latex	Vinyl
Glutaraldehyde, <5%			●●●
Glycerine	●●●●	●●●●	●●●●
Glycerol	●●●●	●●●●	●●●●
Glycol	●●●●		
Grain Alcohol	●●●		
Heptanes		●	●●●●
Hexamthyldisiloxane			●●●
Hexane		●	●●●●
Hydrazine			●●●●
Hydrochloric Acid, Dilute	●●●●	●●	●●●
Hydroflouric Acid, Dilute			●●●●
Hypochlorites	●●●		
Hydrogen Gas	●●●●		
Hydrogen Peroxide	●●●	●●●	●●●
Hydrogen Sulfide	●●●●		
Inorganic Salts	●●●		
Iron Chloride	●●●		
Iron Sulfates	●●●		
Isobutyl Alcohol		●●●●	●●●●
Isooctane		●	●●●●
Isopropanol	●●●	●●●●	●●●●
Jet Fuel, <30% Aromatics			●●●
2- Propanol	●●●		
Kerosene		●	●●●●
Lactic Acid	●●●	●●●●	●●●●
Lauric Acid	●●	●●	●●●
Lineoleic Acid	●●●●	●	●●●
Magnesium Chloride	●●●		
Magnesium Sulfate	●●●●		
Malathion, 30-70%			●●●●
Maleic Acid	●●●	●●	●●●
Methanol	●●●	●●●●	●●
Methyl Ethyl Ketone	●	●●	●
Methyl Isobutyl Ketone	●	●	●
Mercuric Chloride		●●●●	●●●●
Mercury		●●●●	●●●●

Excellent ●●●●
Good ●●●
Fair ●●
Poor ●
Not Recommended ●

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Glove Chemical Compatibility Chart

Chemical	Nitrile	Latex	Vinyl
Moisture	●●●●		
Monoethanolamine	●	●●●	●●●
Muriatic Acid	●●●●	●●●●	
N-Butyl Alcohol		●●●	●●●●
N- Methyl-2-Pyrrolidone		●●●●	
N-Propyl Alcohol			●●●●
Naptha, 15-20% Aromatics		●	●●●●
Naphthalene	●	●	●
Nitric Acid <30%		●	●●●●
Nitrobenzene		●●	
Octane			●●●●
Octyl Alcohol		●●●	●●●●
Oleic Acid		●●	●●●●
Oxalic Acid	●●●	●●●	●●●●
Palmitic Acid	●●●	●●●	●●●●
Pentachlorophenol		●	●●●
Pentane		●	●●●●
Perchloric Acid, 30-70%		●	●●●●
Phenol	●●●●	●●●	●●●●
Phosphoric Acid	●●●	●●	●●●●
Pickling Solution	●●●		
Picric Acid			●●●●
Pine Oil	●●●●		
Potash Salts	●●●●		
Potassium Bromide	●●●●		
Potassium Carbonate	●●●		

Chemical	Nitrile	Latex	Vinyl
Potassium Chloride	●●●●	●●●●	●●●●
Potassium Cyanide	●●●●	●●●●	●●●●
Potassium Dichromate	●●●●	●●●	●●●●
Potassium Ferrocyanide	●●●●		
Potassium Hydroxide	●●●●	●●●	●●●●
Potassium Hypochlorite	●●●●		
Potassium Iodide		●●●	●●●●
Potassium Nitrite	●●●●		
Potassium Phosphate	●●●		
Potassium Silicate	●●●		
Potassium Sulfate	●●●●	●●●	●●●●
Potassium Sulfide	●●●●		
Potassium Thiosulfate	●●●		
Propan-2-Ol		●●●●	
Propyl Alcohol	●●●	●●●	●●●●
Propylene Glycol		●●●●	●●●●
Rust Inhibitors		●●●●	●●●●
Rock Salt	●●●●		
Salt Spray	●●●●		
Sodium Acetate		●●●●	●●●
Sodium Azide		●●●●	●●●●
Sodium Bicarbonate		●●●●	●●●●
Sodium Carbonate	●●●●		●●●●
Sodium Chloride	●●●●	●●●●	●●●●
Sodium Cyanide	●●●●	●●●●	●●●●
Sodium Hydroxide	●●●●	●●●●	●●●●

Chemical	Nitrile	Latex	Vinyl
Sodium Hypochorite	●●●	●●	●●●●
Sodium Nitrate	●●●●		
Sodium Phosphate	●●●		
Sodium Silicate	●●●●		
Sodium Sulfate	●●●●		
Sodium Sulphite	●●●●		
Sodium Thiosulfate	●●●●		●●●●
Stearic Acid	●●●		
Sulfur Dioxide	●●●●		
Sulfuric Acid (Dilute)	●●●	●	●●
Sulfurous Acid (75-100%)	●		●
Tannic Acid	●●●●	●●●●	●●●
1,2,4,5- Tetrachl orobenzen			●●●●
Tetrahydrofuran	●	●	●●
Triethanolamine	●●●	●●●●	●●●●
Turpentine	●●	●	●●●●
Vegetable Oils	●●●		
Water (Soapy)	●●●●	●●●●	●●●●
Water (Distilled)	●●●●	●●●●	●●●●
Water (Fresh)	●●●●	●●●●	●●●●
Water (Salt)	●●●●	●●●●	●●●●
Wood Alcohol	●●●		
Xylene	●	●	●●
Zinc Salts	●●●		

*Testing Methods are based on BS-CEN369 and BS-CEN 374 Part (which are very identical to ASTM-F-739)

Resistance		Permeation 1ug/cm2/second
Excellent	●●●●	>300
Good	●●●	181 – 300
Fair	●●	61 – 180
Poor	●	20 – 60
Not Recommended	●	<20

*Remark:

Gloves do not provide unlimited protection against all chemicals, and the user must determine before use that the glove will resist permeation and degradation by the chemicals (including chemical mixtures) in the environment of intended use. Variability in material thickness, chemical concentration, length of exposure to chemicals and temperature will affect specific performance.

VALUTEK™

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Nitrile and Latex Comparison

Nitrile has only been on the scene as a clean and reliable choice for cleanroom operators for the past decade. While Latex is made from organic tree sap and contains allergy-causing proteins recognized by the FDA, Nitrile is manufactured from a 100% inorganic synthetic material. Nitrile gloves provide superior barrier protection, minimize the risk of allergic reactions and possess excellent electrostatic discharge (ESD) properties. Nitrile is presently the best choice for operator comfort due to its remarkable memory-membrane. This feature allows a nitrile glove to adapt to each individual's hand, improving motion and minimizing fatigue.

Nitrile and Latex Characteristics Comparison

	Particle Count	Extractable Count	ESD Properties	Dexterity	Chemical Compatibility
Nitrile	++	++	+	++	++
Latex	-	-	-	+	+

- Poor + Good ++ Excellent

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Glove Packaging

Valutek's gloves are packed in double poly bags, vacuum sealed, flat packed in carton boxes and with a carton liner.

All gloves are controlled environment compatible, lot traceable with retention samples held in Quality Control for 36 months from date of manufacturing.

Vacuum seal benefit: better storage, no particulate release, no ESD issue.

MacroTek™
ISO 7+ (Class 10.000+)

MicroTek™
ISO 5-6 (Class 100- 1.000)

NanoTek™
ISO 3-4 (Class 1- 10)

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Cleanroom Glove Packaging

Controlled environment gloves are flat packaged in a critical environment with the cuffs all to one end in two stacks of 50 each, double poly-bagged 100 per pack, 10 packs per case in a carton liner to ensure product integrity. Boxed gloves are not.

Over 98% of thin-wall, powder-free gloves are used in medical / lab / industrial applications. Operators of controlled environments often unknowingly procure a glove not designed to their application. Powder-free lab / industrial / medical grade boxed gloves are not suitable for a controlled environment because:

- Boxed gloves are powder-free, not particulate-free. Uncoated chipboard dispenser boxes shed particles, and contaminate the powder-free gloves.
- Dispenser boxes forces operators to contaminate glove when donning. Operators' bare hand should only make cuff contact.
- Additives and fillers are often used in boxed gloves which reduce ESD compatibility (surface resistivity), and negatively impact glove cleanliness.
- No post-processing to reduce surface contamination left from the dipping process.

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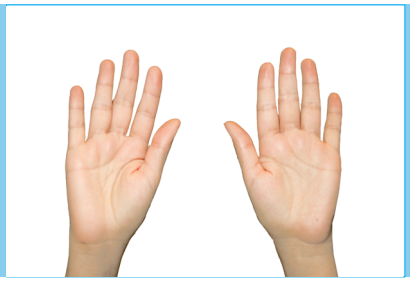
Glove Donning Procedure

It only takes one uncleaned hand to contaminate the entire controlled environment, follow proper glove donning procedure to minimize cross-contamination, and to keep your process contaminant free.



Step 1: Wash hands thoroughly and dry

Step 2: Pick the first glove out from the dispenser by grabbing the beaded cuff of the glove.

Step3: Don the first glove by sliding one-hand in while holding the cuff with the other hand.

Step 4: Adjust the fitness of the glove only by contacting the cuff, avoid touching elsewhere.

Step 5: Don second glove by using the gloved hand to pick up the cuff, repeat step 3 and 4.

Step 6: If double donning is desired, respeat step 2 to 5 with a second set of gloves after apparel gowning.

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PVC

PVC Powder-Free Cleanroom 12” Glove PDF

- Polyvinyl chloride plastic material
- 12”/290mm length with beaded long cuff
- Ambidextrous shape
- Disposable and light weight
- Light bisque texture
- ESD compliant
- Low levels of particulate and extractable counts

This cleanroom packaged glove is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment. It is also recommended for use in a variety of applications including electronics, pharmaceutical, laboratory and device manufacturing.

NanoTek
ISO 3-4 (Class 1-10)

Ambidextrous · ESD Static Dissipative · LATEX FREE

Part Number	Size	Packaging	Total/Case
VTGVCRB12-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGVCRB12-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGVCRB12-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGVCRB12-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case

Latex

Latex Powder-Free 9” Glove PDF

- 100% natural latex material provides the highest degree of dexterity
- 9”/230mm length with beaded cuff
- Ambidextrous shape
- Fully textured and smooth palm design
- Powder-free, double chlorination, filtered water rinse
- Moderate acid compatibility
- Cleanroom compatible packaging for proper donning

This cleanroom packaged glove is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is also commonly used in a wide variety of applications including laboratories, general industry, food processing and service, janitorial/sanitation, pharmaceutical handling, electronics assembly and light-duty maintenance and cleanup.

Caution: This product contains natural rubber latex which may cause allergic reactions in some individuals.

MicroTek
ISO 5-6 (Class 100- 1.000)

Ambidextrous

Part Number	Size	Packaging	Total/Case
VTGLPFB90-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGLPFB90-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGLPFB90-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGLPFB90-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case

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Latex Powder-Free 12” Glove PDF

- 100% natural latex material provides the highest degree of dexterity
- Cleanroom compatible packaging for proper donning
- 12”/290mm length with beaded long cuff
- Fully textured and smooth palm design
- Powder-free, double chlorination, filtered water rinse
- Moderate acid compatibility

This cleanroom packaged glove is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is also commonly used in a wide variety of applications including laboratories, general industry, food processing and service, janitorial/sanitation, pharmaceutical handling, electronics assembly and light-duty maintenance and cleanup.

MicroTek
ISO 5-6 (Class 100- 1.000)

Caution: This product contains natural rubber latex which may cause allergic reactions in some individuals.

Ambidextrous

Part Number	Size	Packaging	Total/Case
VTGLPFB12-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGLPFB12-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGLPFB12-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGLPFB12-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case
VTGLPFB12-2X	2X	100 ea/bag, 10 bags/case	1000 ea/case

Multi-Task ‘Arizona Blue’ Nitrile Glove PDF

- 100% clean, synthetic nitrile polymer (Acrylonitrile Butadiene)
- Accelerator & sulfur free
- Cleanroom compatible packaging for proper donning
- 9”/230 mm length with beaded cuff
- Textured fingertips
- Powder-free, single chlorination
- ESD compliant

This cleanroom packaged glove is recommended for use in a cleanroom Class 10.000+ (ISO7+) critical environment. It is also recommended for non-sterile Life Science applications (Medical device and Pharmaceutical), as well as general purpose, non-critical applications. It is also suitable as a donning glove.

MacroTek
ISO 7+ (Class 10.000+)

ESD Static Dissipative

Ambidextrous

LATEX FREE

Part Number	Size	Packaging	Total/Case
VTGNMTPFB90AB-XS	XS	100 ea/bag, 10 bags/case	1000 ea/case
VTGNMTPFB90AB-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGNMTPFB90AB-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGNMTPFB90AB-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGNMTPFB90AB-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case
VTGNMTPFB90AB-2X	2X	100 ea/bag, 10 bags/case	1000 ea/case

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Nitrile Powder-Free 9.5” Glove PDF

- 100% clean, synthetic nitrile polymer (Acrylonitrile Butadiene)
- Accelerator & sulfur free
- Contains no fillers, silicones or plasticizers
- 9.5”/240 mm length with beaded long cuff
- Textured fingertips
- Powder-free, double chlorination, filtered water rinse
- ESD compliant and acid and solvent compatible

This cleanroom packaged glove is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is also commonly used in a wide variety of applications including semiconductor, pharmaceutical, food handling, laboratory work, electronic, intricate parts handling, and maintenance and cleanup.

MicroTek
ISO 5-6 (Class 100- 1.000)

Ambidextrous · ESD Static Dissipative · LATEX FREE

Part Number	Size	Packaging	Total/Case
VTGNPFB95-XS	XS	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB95-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB95-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB95-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB95-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case

Nitrile Powder-Free 12” Glove PDF

- 100% clean, synthetic nitrile polymer (Acrylonitrile Butadiene)
- Accelerator & sulfur free
- Contains no fillers, silicones or plasticizers
- 12”/290 mm length with beaded long cuff
- Textured fingertips
- Powder-free, double chlorination, filtered water rinse
- ESD compliant and acid and solvent compatible

This cleanroom packaged glove is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is also commonly used in a wide variety of applications, including semiconductor, pharmaceutical, food handling, laboratory work, electronic, intricate parts handling, and maintenance and cleanup.

MicroTek
ISO 5-6 (Class 100- 1.000)

Ambidextrous · ESD Static Dissipative · LATEX FREE

Part Number	Size	Packaging	Total/Case
VTGNPFB12-XS	XS	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB12-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB12-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB12-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB12-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB12-2X	2X	100 ea/bag, 10 bags/case	1000 ea/case

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Ultra Thin Nitrile Powder-Free 9.5” Glove PDF

- 100% clean, synthetic nitrile polymer (Acrylonitrile Butadiene)
- Accelerator & sulfur free
- Contains no fillers, silicones or plasticizers
- 9.5”/240mm length with beaded standard cuff
- Textured fingertips
- Powder-free, double chlorination, filtered water wash
- ESD compliant and acid and solvent compatible

This cleanroom packaged glove is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is also commonly used in a wide variety of applications, including semiconductor, pharmaceutical, food handling, laboratory work, electronic, intricate parts handling, and maintenance and cleanup.

MicroTek
ISO 5-6 (Class 100- 1.000)

Part Number	Size	Packaging	Total/Case
VTGNUTPFB95-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGNUTPFB95-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGNUTPFB95-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGNUTPFB95-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case

ESD Static Dissipative
Ambidextrous
LATEX FREE

Nitrile

Nitrile Cleanroom 12” Glove PDF

- 100% clean, synthetic nitrile polymer (Acrylonitrile Butadiene)
- Accelerator & sulfur free
- 12”/290 mm length with beaded long cuff
- Textured fingertips
- Powder-free, double chlorination, 18 mega ohm D.I. water rinse
- Low levels of particles and extractable counts
- ESD compliant and acid and solvent compatible

This cleanroom packaged glove is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment. It is also recommended for use in a wide variety of applications that require an extremely clean glove such as wafer fabrication, disk drives, semiconductor, biotechnology, non-aseptic pharmaceutical and optics.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size	Packaging	Total/Case
VTGNCRB12-XS	XS	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRB12-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRB12-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRB12-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRB12-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRB12-2X	2X	100 ea/bag, 10 bags/case	1000 ea/case

ESD Static Dissipative
Ambidextrous
LATEX FREE

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Sterile Nitrile Cleanroom 12” Glove PDF

- 100% Clean, synthetic nitrile polymer material (Acrylonitrile Butadiene)
- Gamma irradiated
- 12”/290mm length with beaded long cuff
- Textured fingertips
- Powder-free, double chlorination, 18 mega ohm D.I water rinse
- Low levels of particles and extractable counts
- ESD compliant, acid and solvent compatible

This cleanroom packaged glove is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment. It is also commonly used in ster-ile environments and industries that require a very clean glove such as pharmaceutical, biotechnology, and medical device manufacturing.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size	Packaging	Total/Case
VTGNCRBIR12-XS	XS	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRBIR12-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRBIR12-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRBIR12-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRBIR12-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRBIR12-2X	2X	100 ea/bag, 10 bags/case	1000 ea/case

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Apparel

Complete protection, great comfort

Apparel Selection Guide

Cleanroom Apparel

Clean environments, by their nature, require separation of the product and operating personnel. Protective apparel provides that barrier. It keeps away the contamination generated by operating personnel from the process and the product and in addition protects the operator from working environment in the facilities where the process or product is dangerous or harmful. Valutek offers apparel from headwear to footwear to ensure full protection and separation.

70% contamination is operator based. Cleanroom apparel provides full coverage to the operator and minimizes this contamination to ensure the cleanliness of the controlled environment

Apparel Substrates

Spunbond Polypropylene (PP)

MacroTek
ISO 7+ (Class 10.000+)

This material is made from 100% virgin spunbond polypropylene; it is ideal as an undergarment (i.e. bouffant cap, shoe cover). This non-woven, lightweight, breathable fabric provides a low-cost solution for protection against dry particulates.

Polyethylene Coated Polypropylene (PCPP)

MicroTek
ISO 5-6 (Class 100- 1.000)

This material is as same as polypropylene, but with a polyethylene coating. PCPP is also impervious to liquids, lint-free, and has excellent tensile and tear resistance. It provides economical protection to workers exposed to splashes from certain chemicals, blood, and particulates.

Cross-linked Polyethylene (CPE)

MicroTek
ISO 5-6 (Class 100- 1.000)

This material is an economical alternative when a low particulate material is required. Low density CPE is impervious to liquids, lint-free, and does not run or bleed when exposed to water.

Microporous (MP)

NanoTek
ISO 3-4 (Class 1-10)

MP is a highly breathable, non-linting film that is bonded with a nonwoven fabric, offering an ultra-cool, comfortable alternative to TYVEK or other similar materials. It provides superior performance against non-toxic particulates, liquids, spray and dust.

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Apparel Packaging

Valutek's apparel are packed in double poly bags, vacuum sealed, flat packed in carton boxes and with a carton liner.

Critical environment compatible. All apparel is lot traceable with retention samples held in Quality Control for 36 months from date of manufacturing.

Vacuum seal benefit: better storage, no particulate release, no ESD issue.

MacroTek™
ISO 7+ (Class 10.000+)

MicroTek™
ISO 5-6 (Class 100- 1.000)

NanoTek™
ISO 3-4 (Class 1- 10)

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Headwear

Spunbond Polypropylene Bouffant Cap PDF

- 100% non-linting, non-woven spunbond polypropylene fabric
- Disposable, comfortable with great breathability
- Filament covered, unexposed elastic edge design for secure fit and closure
- Can be worn with a hood for added protection
- Available in both standard weight and heavyweight versions

The bouffant caps are recommended for use in a cleanroom Class 10,000+ (ISO 7+) critical environment.

MacroTek ISO 7+ (Class 10.000+)

LATEX FREE

Part Number	Size	Color	Weight	Packaging	Total/Case
VTBFCW-21	21”	White	11 gsm	100 ea/bag, 10 bags/case	1000 ea/case
VTBFCWHW-21	21”	White	17 gsm	100 ea/bag, 10 bags/case	1000 ea/case
VTBFCW-24	24”	White	11 gsm	100 ea/bag, 10 bags/case	1000 ea/case
VTBFCBL-24	24”	Blue	11 gsm	100 ea/bag, 10 bags/case	1000 ea/case
VTBFCWHW-24	24”	White	17 gsm	100 ea/bag, 10 bags/case	1000 ea/case

Headwear

Microporous Hood PDF

- 100% non-linting microporous film bonded with a non-woven fabric
- Disposable, lightweight comfortable with high breathability
- Superior barrier protection against non-toxic particulates, liquids, sprays and dust

This hood is recommended for either stringent industrial or demanding cleanroom applications. This hood is ideal for use in a cleanroom Class 1-10 (ISO 3-4) critical environment that requires high contamination control and cleanliness.

NanoTek ISO 3-4 (Class 1-10)

LATEX FREE

Part Number	Size	Color	Packaging	Total/Case
VTMHOOD-U	Universal	White	20 ea/bag, 5 bags/case	100 ea/case

Facewear

Spunbond Polypropylene Beard Cover PDF

- 100% non-linting, non-woven spunbond polypropylene fabric
- Disposable, comfortable with full coverage
- Filament covered, unexposed elastic band for secure fit and closure
- Available in both standard weight and heavyweight versions

The beard covers are recommended for use in a cleanroom Class 10,000+ (ISO 7+) critical environment.

MacroTek ISO 7+ (Class 10.000+)

LATEX FREE

Part Number	Size	Color	Weight	Packaging	Total/Case
VTBCV-18	18”	White	11 gsm	100 ea/bag, 10 bags/case	1000 ea/case
VTBCV-21	21”	White	11 gsm	100 ea/bag, 10 bags/case	1000 ea/case
VTBCVHW-18	18”	White	17 gsm	100 ea/bag, 10 bags/case	1000 ea/case

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3-Ply Polypropylene Face Mask PDF

- 3-ply material provides excellent guard against bacteria and particulates
- Malleable aluminum noseband ensures adjustable proper seal and perfect fitting
- Disposable, lightweight with very low breathing resistance
- High filtration capacity
- Without glass fibers
- Available in both elastic ear loops and head band design

The facemasks are recommended for use in a cleanroom Class 100-1.000 (ISO 5-6) critical environment.

MicroTek
ISO 5-6 (Class 100- 1.000)

LATEX FREE

Part Number	Style	Color	Packaging	Total/Case
VTMASKELR-WH	Elastic ear loops	White	50 ea/bag, 20 bags/case	1000 ea/case
VTMASKELR-BL	Elastic ear loops	Blue	50 ea/bag, 20 bags/case	1000 ea/case
VTMASKHB-WH	Head Band	White	50 ea/bag, 20 bags/case	1000 ea/case

Facewear

Spunlace Non-Woven Face Veil PDF

- 55% polyester and 45% cellulose non-linting fabric
- Malleable aluminum nosepiece ensures adjustable proper seal and perfect fitting
- Disposable, lightweight with very low breathing resistance
- Elastic head band design

The face veils are recommended for use in a cleanroom Class 100-1.000 (ISO 5-6) critical environment.

MicroTek
ISO 5-6 (Class 100- 1.000)

LATEX FREE

Part Number	Size	Color	Packaging	Total/Case
VTVEIL-EL	12” x 15”	White	50 ea/bag, 3 bags/case	150 ea/case

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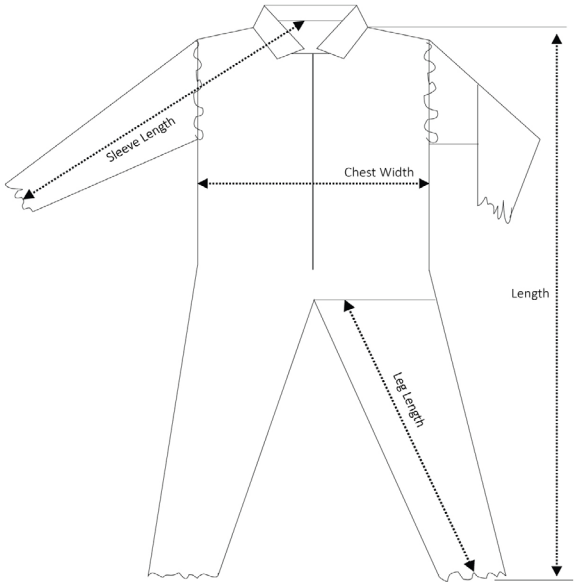
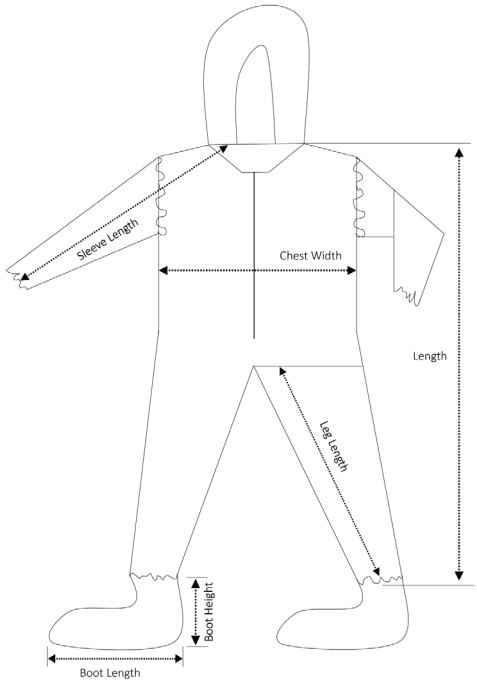
Valutek Garment Sizing Chart





Valutek Coverall Sizing Chart

Size	Length	Chest Width	Sleeve Length	Leg Length	Boot Length	Boot Height
SM	63¾”	23”	33”	28¼”	10”	6”
MD	65¾”	24”	34”	28¾”	11¼”	6”
LG	67¼”	25”	35”	29”	13¼”	6”
XL	70”	27”	36¼”	30”	15”	6”
XXL	72”	29½”	37”	31½”	15”	6”
XXXL	74½”	31½”	38”	32½”	15”	6”
XXXXL	75½”	32½”	40”	33”	15”	6”

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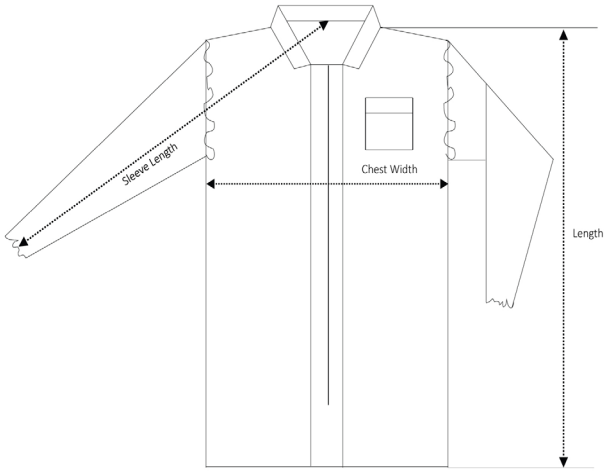

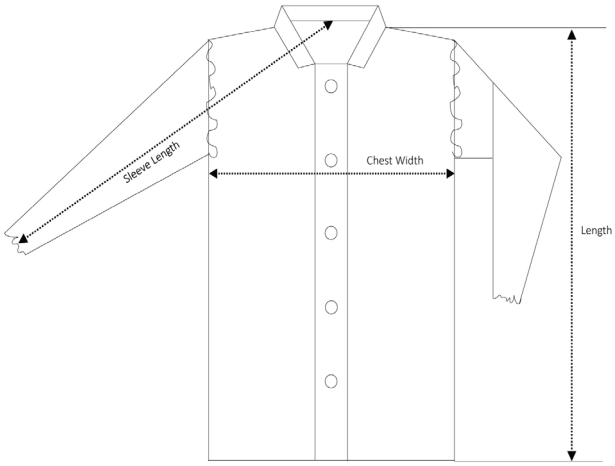

Valutek Lab Coat Sizing Chart

Size	Length	Chest Width	Sleeve Length
SM	38½”	25”	34”
MD	40”	26”	34½”
LG	41”	27½”	35½”
XL	42½”	28¼”	36¼”
XXL	44”	30”	37½”
XXXL	45½”	31”	39”
XXXXL	46½”	32”	40½”

Garment

Spunbond Polypropylene Lab Coat PDF

- 100% non-linting, non-woven, spunbond polypropylene fabric
- Disposable, lightweight and breathable
- Knee length with 5 snap closures, no pockets, elastic cuffs and a single ply shirt collar design
- Color option: white

This lab coat is recommended for use in a cleanroom Class 10,000+ (ISO 7+) critical environment. It is commonly used in electronic, medical device, and pharmaceutical industries where operator garment contamination is a concern. It is also highly suitable for a wide variety of macro contamination level applications, such as basic manufacturing, MDM and injection molding.

MacroTek
ISO 7+ (Class 10.000+)

LATEX FREE

Part Number	Size	Length	Chest Width	Sleeve Length	Packaging	Total/Case
VTLBCT-SM	SM	38½”	25”	34”	10 ea/bag, 3 bags/case	30 ea/case
VTLBCT-MD	MD	40”	26”	34½”	10 ea/bag, 3 bags/case	30 ea/case
VTLBCT-LG	LG	41”	27½”	35½”	10 ea/bag, 3 bags/case	30 ea/case
VTLBCT-XL	XL	42½”	28¼”	36¼”	10 ea/bag, 3 bags/case	30 ea/case
VTLBCT-2X	XXL	44”	30”	37½”	10 ea/bag, 3 bags/case	30 ea/case
VTLBCT-3X	XXXL	45½”	31”	39”	10 ea/bag, 3 bags/case	30 ea/case
VTLBCT-4X	XXXXL	46½”	32”	40½”	10 ea/bag, 3 bags/case	30 ea/case

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Garment

Polyethylene Coated Polypropylene Lab Coat PDF

- 100% non-linting, non-woven, spunbond polypropylene coated with polyethylene
- Disposable, lightweight and breathable
- Knee length with 5 snap closures, no pockets, elastic cuffs and a single ply shirt collar design
- Superior barrier protection against non-toxic particulates, liquids, sprays and dust
- Color option: white

This lab coat is recommended for use in a cleanroom Class 10,000+ (ISO 7+) critical environment. It is commonly used in electronic, medical device, and pharmaceutical industries where operator garment contamination is a concern. It is also highly suitable for a wide variety of macro contamination level applications, such as basic manufacturing, MDM and injection molding.

MacroTek
ISO 7+ (Class 10.000+)

LATEX FREE

Part Number	Size	Length	Chest Width	Sleeve Length	Packaging	Total/Case
VTLBCTC-SM	SM	38½"	25"	34"	10 ea/bag, 3 bags/case	30 ea/case
VTLBCTC-MD	MD	40"	26"	34½"	10 ea/bag, 3 bags/case	30 ea/case
VTLBCTC-LG	LG	41"	27½"	35½"	10 ea/bag, 3 bags/case	30 ea/case
VTLBCTC-XL	XL	42½"	28¼"	36¼"	10 ea/bag, 3 bags/case	30 ea/case
VTLBCTC-2X	XXL	44"	30"	37½"	10 ea/bag, 3 bags/case	30 ea/case
VTLBCTC-3X	XXXL	45½"	31"	39"	10 ea/bag, 3 bags/case	30 ea/case
VTLBCTC-4X	XXXXL	46½"	32"	40½"	10 ea/bag, 3 bags/case	30 ea/case

Garment

Microporous Lab Coat PDF

- 100% non-linting microporous film bonded with a non-woven fabric
- Disposable, lightweight and highly breathable
- Knee length with a zipper closure, one pocket, elastic cuffs and a single ply shirt collar design
- Color option: white

This lab coat is recommended for either stringent industrial or demanding cleanroom applications. This lab coat is ideal for use in a cleanroom Class 1-10 (ISO 3-4) critical environment that require high contamination control and cleanliness.

NanoTek
ISO 3-4 (Class 1-10)

LATEX FREE

Part Number	Size	Length	Chest Width	Sleeve Length	Packaging	Total/Case
VTMLBCTZ-SM	SM	38½"	25"	34"	5 ea/bag, 6 bags/case	30 ea/case
VTMLBCTZ-MD	MD	40"	26"	34½"	5 ea/bag, 6 bags/case	30 ea/case
VTMLBCTZ-LG	LG	41"	27½"	35½"	5 ea/bag, 6 bags/case	30 ea/case
VTMLBCTZ-XL	XL	42½"	28¼"	36¼"	5 ea/bag, 6 bags/case	30 ea/case
VTMLBCTZ-2X	XXL	44"	30"	37½"	5 ea/bag, 6 bags/case	30 ea/case
VTMLBCTZ-3X	XXXL	45½"	31"	39"	5 ea/bag, 6 bags/case	30 ea/case
VTMLBCTZ-4X	XXXXL	46½"	32"	40½"	5 ea/bag, 6 bags/case	30 ea/case

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Spunbond Polypropylene Coverall PDF

- 100% non-linting, non-woven, spunbond polypropylene fabric
- Disposable, lightweight and breathable full body protection
- Zipped closure, elastic wrist and ankle cuffs and a single shirt collar design
- Color option: white

This coverall is recommended for use in a cleanroom Class 10,000+ (ISO 7+) critical environment. It is commonly used in electronic, medical device, and pharmaceuti-cal industries where operator garment contamination is a concern. It is also highly suitable for a wide variety of macro contamination level applications, such as basic manufacturing, MDM and injection molding.

MacroTek
ISO 7+ (Class 10.000+)

Part Number	Size	Length	Chest Width	Sleeve Length	Leg Length	Packaging	Total/Case
VTCVRL-SM	SM	63¾"	23"	33"	28¼"	5 ea/bag, 5 bags/case	25 ea/case
VTCVRL-MD	MD	65¾"	24"	34"	28¾"	5 ea/bag, 5 bags/case	25 ea/case
VTCVRL-LG	LG	67¼	25"	35"	29"	5 ea/bag, 5 bags/case	25 ea/case
VTCVRL-XL	XL	70"	27"	36¼"	30"	5 ea/bag, 5 bags/case	25 ea/case
VTCVRL-2X	XXL	72"	29½"	37"	31½"	5 ea/bag, 5 bags/case	25 ea/case
VTCVRL-3X	XXXL	74½"	31½"	38"	32½"	5 ea/bag, 5 bags/case	25 ea/case
VTCVRL-4X	XXXXL	75½"	32½"	40"	33"	5 ea/bag, 5 bags/case	25 ea/case

LATEX FREE

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Microporous Coverall PDF

- 100% non-linting microporous film bonded with a non-woven fabric
- Disposable, lightweight and breathable full body protection
- Zipped closure with a flap, elastic wrist and ankle cuffs and a single shirt collar design
- Superior barrier protection against non-toxic particulates, liquids, sprays and dust
- Color option: white

This coverall is recommended for either stringent industrial or demanding cleanroom applications. This coverall is ideal for use in a cleanroom Class 1-10 (ISO 3-4) critical environment as well as other critical areas that require high contamination control and cleanliness.

NanoTek
ISO 3-4 (Class 1-10)

LATEX FREE

Part Number	Size	Length	Chest Width	Sleeve Length	Leg Length	Packaging	Total/Case
VTMCVRL-SM	SM	63¾"	23"	33"	28¼"	5 ea/bag, 5 bags/case	25 ea/case
VTMCVRL-MD	MD	65¾"	24"	34"	28¾"	5 ea/bag, 5 bags/case	25 ea/case
VTMCVRL-LG	LG	67¼	25"	35"	29"	5 ea/bag, 5 bags/case	25 ea/case
VTMCVRL-XL	XL	70"	27"	36¼"	30"	5 ea/bag, 5 bags/case	25 ea/case
VTMCVRL-2X	XXL	72"	29½"	37"	31½"	5 ea/bag, 5 bags/case	25 ea/case
VTMCVRL-3X	XXXL	74½"	31½"	38"	32½"	5 ea/bag, 5 bags/case	25 ea/case
VTMCVRL-4X	XXXXL	75½"	32½"	40"	33"	5 ea/bag, 5 bags/case	25 ea/case

Garment

Microporous Coverall with Hood and Boots PDF

- 100% non-linting microporous film bonded with a non-woven fabric
- Disposable, lightweight and highly breathable
- Zipped closure with a flap, elastic wrist and ankle cuffs, with an elastic hood and attached anti-skid PVC sole boot covers
- Superior barrier protection against non-toxic particulates, liquids, sprays and dust
- Color option: white

This coverall is recommended for either stringent industrial or demanding cleanroom applications. This coverall is ideal for use in a cleanroom Class 1-10 (ISO 3-4) critical environment as well as other critical areas that require high contamination control and cleanliness.

NanoTek
ISO 3-4 (Class 1-10)

LATEX FREE

Part Number	Size	Length	Chest Width	Sleeve Length	Leg Length	Boot Length	Packaging	Total/Case
VTMCVRLHB-SM	SM	63¾"	23"	33"	28¼"	10"	5 ea/bag, 5 bags/case	25 ea/case
VTMCVRLHB-MD	MD	65¾"	24"	34"	28¾"	11¼"	5 ea/bag, 5 bags/case	25 ea/case
VTMCVRLHB-LG	LG	67¼	25"	35"	29"	13¼"	5 ea/bag, 5 bags/case	25 ea/case
VTMCVRLHB-XL	XL	70"	27"	36¼"	30"	15"	5 ea/bag, 5 bags/case	25 ea/case
VTMCVRLHB-2X	XXL	72"	29½"	37"	31½"	15"	5 ea/bag, 5 bags/case	25 ea/case
VTMCVRLHB-3X	XXXL	74½"	31½"	38"	32½"	15"	5 ea/bag, 5 bags/case	25 ea/case
VTMCVRLHB-4X	XXXXL	75½"	32½"	40"	33"	15"	5 ea/bag, 5 bags/case	25 ea/case

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Spunbond Polypropylene Sleeve PDF

- 100% non-linting, non-woven spunbond polypropylene fabric
- Disposable, lightweight and breathable
- Non-latex elastic cuffs at the wrist and arm

This sleeve is recommended for use in a cleanroom Class 10,000+ (ISO 7+) critical environment.

MacroTek
ISO 7+ (Class 10.000+)

Part Number	Size	Color	Packaging	Total/Case
VTSLV-18	18”	White	10 ea/roll, 10 rolls/bag, 2 bags/case	200 ea/case
VTSLV-21	21”	White	10 ea/roll, 10 rolls/bag, 2 bags/case	200 ea/case

LATEX FREE

Sleeves

Polyethylene Coated Polypropylene Sleeve PDF

- 100% non-linting, non-woven, spunbond polypropylene coated with polyethylene
- Disposable, lightweight and breathable
- Non-latex elastic cuffs at the wrist and arm

This sleeve is recommended for use in a cleanroom Class 100-1.000 (ISO 5-6) critical environment. It is also commonly used in applications where durability, liquid protection and cleanliness are of great importance.

MicroTek
ISO 5-6 (Class 100- 1.000)

Part Number	Size	Color	Packaging	Total/Case
VTSLVC-21	21”	White	10 ea/roll, 10 rolls/bag, 2 bags/case	200 ea/case

LATEX FREE

Sleeves

Microporous Sleeve PDF

- 100% non-linting microporous film bonded with a non-woven fabric
- Disposable, lightweight and breathable
- Non-latex elastic cuffs at the wrist and arm

This sleeve is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment.

NanoTek
ISO 3-4 (Class 1-10

Part Number	Size	Color	Packaging	Total/Case
VTMSLV-18	18”	White	50 ea/bag, 4 bags/case	200 ea/case
VTMSLV-21	21”	White	50 ea/bag, 4 bags/case	200 ea/case

LATEX FREE

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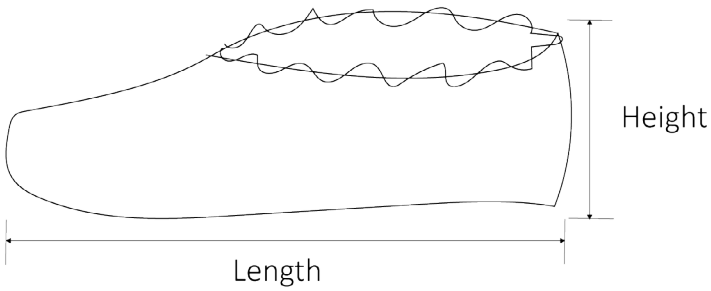
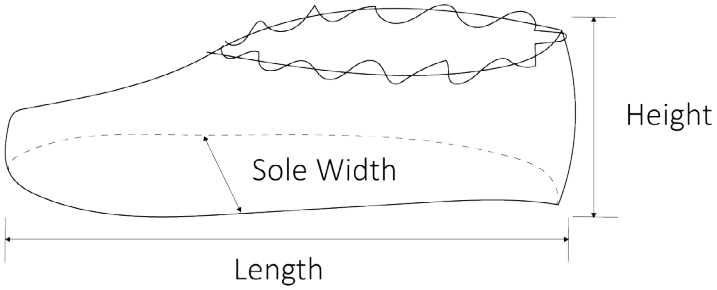
Valutek Shoe Cover Sizing Chart

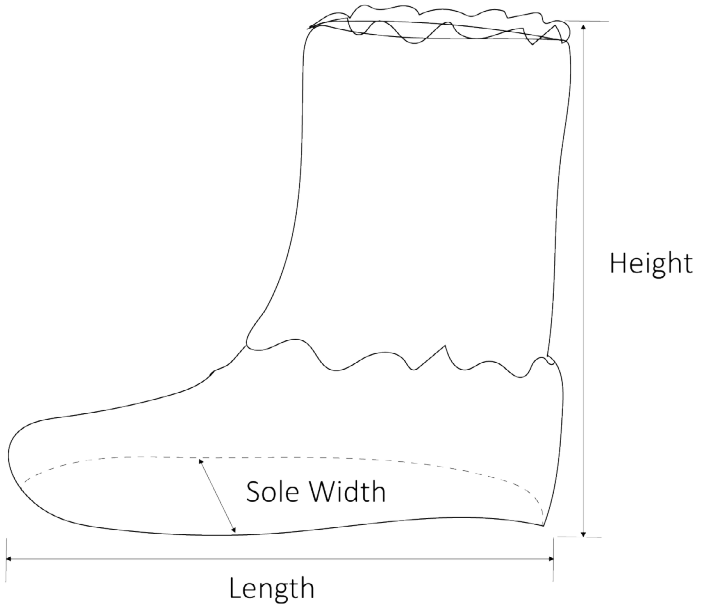


General Shoe Cover Sizing Chart		
Size	Length	Height
MD	14”	6”
LG	16”	6”
XL	18”	6”



PVC Sole Shoe Cover Sizing Chart			
Size	Length	Height	Sole Width
SM	10”	6”	4¼”
MD	11¼”	6”	4¼”
LG	13¼”	6”	4½”
XL	14¼”	6”	4¾”
2X	15”	6”	4¾”

PVC Sole Boot Cover Sizing Chart			
Size	Length	Height	Sole Width
MD	11¼”	18”	4¼”
LG	13¼”	18”	4¾”
XL	15”	18”	4¾”



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Valutek Shoe Cover Conversion Chart

Valutek Shoe Cover Sizes | Small • Medium • Large • X-Large

Version 1.0 Dec.2014

USA/CANADA

Men	Women	VT Shoe Cover Size
14	15½	XL
12½	14	
11½	13	
10½	12	LG
9	10½	
8½	10	
8	9½	
7½	9	MD
7	8½	
6½	8	
6	7½	
5½	7	
5	6½	
4½	6	SM
4	5½	
3½	5	

MEXICO

Men/Women	VT Shoe Cover Size
12.5	XL
11	
10	
9	LG
7.5	
7	
6.5	
6	MD
5.5	
5	
4.5	

UK/IRELAND

Men	Women	VT Shoe Cover Size
13½	13	XL
12	11½	
11	10½	
10	9½	LG
8½	8	
8	7½	
7½	7	
7	6½	MD
6½	6	
6½	5½	
6	5	
5½	4½	
4½	4	
4	3½	SM
3½	3	
3	2½	

EUROPE

Men/Women	VT Shoe Cover Size
48½	XL
46½	
45	
44	LG
43	
42	
41	
40	MD
39	
38½	
38	
37½	
37	
36	SM
35½	
35	

International Men Shoe Size Conversion Table

	Small			Medium						Large				X- Large		
AUSTRALIA	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½	10	11	12	13½
JAPAN	21.5	22	22.5	23	23.5	24	24.5	25	25.5	26	26.5	27.5	28.5	29.5	30.5	31.5
KOREA	228	231	235	238	241	245	248	251	254	257	260	267	273	279	286	292

International Women Shoe Size Conversion Table

	Small			Medium						Large				X- Large		
AUSTRALIA	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9	10½	11½	12½	14
JAPAN	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5	26	27	28	29	30	31
KOREA	228	231	235	238	241	245	248	251	254	257	260	267	273	279	286	292

Measurements Guide

US/CANADA	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9	10½	11½	12½	14
INCHES	9	9⅛	9¼	9⅜	9½	9⅝	9¾	9⅞	10	10⅛	10¼	10½	10¾	11	11¼	11½
CENTIMETERS	22.8	23.1	23.5	23.8	24.1	24.5	24.8	25.1	25.4	25.7	26	26.7	27.3	27.9	28.6	29.2
MONDOPOINT	228	231	235	238	241	245	248	251	254	257	26	267	273	279	286	292

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Spunbond Polypropylene Shoe Cover PDF

- 100% non-linting, non-woven spunbond polypropylene fabric with stitched seams
- Disposable, lightweight, strong and durable
- Elastic ankle cuffs

This shoe cover is recommended for use in a cleanroom Class 10,000+ (ISO 7+) critical environment.

MacroTek
ISO 7+ (Class 10.000+)

LATEX FREE

Part Number	Size	Length	Height	Color	Packaging	Total/Case
VTSHCVPP-LG	LG	16”	6”	Blue	100 ea/bag, 3 bags/case	300 ea/case
VTSHCVPP-XL	XL	18”	6”	Blue	100 ea/bag, 3 bags/case	300 ea/case

Anti-Skid Polypropylene Shoe Cover PDF

- 100% non-linting, non-woven spunbond polypropylene fabric with stitched seams
- Disposable, lightweight, strong and durable
- Elastic ankle cuffs
- Sprayed latex anti-skid treads on the bottom for safety

This shoe cover is recommended for use in a cleanroom Class 10,000+ (ISO 7+) critical environment. It is also commonly used for protecting against dirt, grime, and certain dry particulates in nonhazardous environments.

MacroTek
ISO 7+ (Class 10.000+)

LATEX FREE

Part Number	Size	Length	Height	Color	Packaging	Total/Case
VTSHCVAS-MD	MD	14”	6”	Blue	100 ea/bag, 3 bags/case	300 ea/case
VTSHCVAS-LG	LG	16”	6”	Blue	100 ea/bag, 3 bags/case	300 ea/case
VTSHCVAS-XL	XL	18”	6”	Blue	100 ea/bag, 3 bags/case	300 ea/case

Anti-Skid Polypropylene ESD Shoe Cover PDF

- 100% non-linting, non-woven spunbond polypropylene fabric with stitched seams
- Disposable, lightweight, strong and durable
- Elastic ankle cuffs
- Sprayed latex anti-skid treads on the bottom for safety
- A 19.6” long conductive ribbon stitched on a solid seam to provide ESD grounding

This shoe cover is recommended for use in a cleanroom Class 10,000+ (ISO 7+) critical environment. It is commonly used for protecting against dirt, grime and certain dry particulates in nonhazardous environments and for protecting sensitive devices in the work area.

MacroTek
ISO 7+ (Class 10.000+)

LATEX FREE

ESD Static Dissipative

Part Number	Size	Length	Height	Color	Packaging	Total/Case
VTSHCVASESDLF-L	LG	16”	6”	Blue	100 ea/bag, 3 bags/case	300 ea/case
VTSHCVASESDLF-X	XL	18”	6”	Blue	100 ea/bag, 3 bags/case	300 ea/case

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Cross-Linked Polyethylene Shoe Cover PDF

- 100% cross-linked polyethylene with heat-sealed seams
- Disposable, lightweight, strong and durable
- Elastic ankle cuffs
- Impervious to non-hazardous liquids
- Available in lightweight, standard weight and heavy weight versions

This shoe cover is recommended for use in a cleanroom Class 100 -1.000 (ISO 5-6) critical environment. It is the most economical shoe cover available that provides full liquid protection and is commonly used in microelectronics and pharmaceutical industries.

MicroTek
ISO 5-6 (Class 100- 1.000)

LATEX FREE

Part Number	Size	Length	Height	Thickness	Color	Packaging	Total/Case
VTSHCVPLLW-BL	LG	16”	6”	3 mil	blue	100 ea/bag, 10 bags/case	1000 ea/case
VTSHCVPL-WH	LG	16”	6”	5 mil	white	100 ea/bag, 3 bags/case	300 ea/case
VTSHCVPL-BL	LG	16”	6”	5 mil	blue	100 ea/bag, 3 bags/case	300 ea/case
VTSHCVPLHW-BL	LG	16”	6”	8 mil	blue	100 ea/bag, 3 bags/case	300 ea/case
VTSHCVPLHWX-BL	XL	18”	6”	8 mil	blue	100 ea/bag, 3 bags/case	300 ea/case
VTSHCVPLHWX-WH	XL	18”	6”	8 mil	white	100 ea/bag, 3 bags/case	300 ea/case

Footwear

Polyethylene Coated Polypropylene PVC Sole Shoe Cover PDF

- 100% non-linting, non-woven, spunbond polypropylene coated with polyethylene
- Disposable, lightweight and breathable
- Stitched seams and elastic ankle cuffs
- Anti-skid PVC sole provides excellent protection against wet and smooth surfaces
- Superior coefficient of friction

This shoe cover is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment that requires high contamination control and cleanliness.

NanoTek
ISO 3-4 (Class 1-10)

LATEX FREE

Part Number	Size	Length	Height	Sole Width	Color	Packaging	Total/Case
VTSHCVPPLVW-SM	SM	10”	6”	4¼”	white	50 ea/bag, 4 bags/case	200 ea/case
VTSHCVPPLVW-MD	MD	11¼”	6”	4¼”	white	50 ea/bag, 4 bags/case	200 ea/case
VTSHCVPPLVW-LG	LG	13¼”	6”	4¾”	white	50 ea/bag, 4 bags/case	200 ea/case
VTSHCVPPLVW-XL	XL	15”	6”	4¾”	white	50 ea/bag, 4 bags/case	200 ea/case

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Valutek PE-Coated Polypropylene Non-Skid Shoe Cover PDF

- Clean, low-linting, and latex free fabric
- Non-skid PVC sole provides excellent protection against wet and smooth surfaces
- Superior coefficient of friction

This shoe cover is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment that requires high contamination control and cleanliness.

NanoTek
ISO 3-4 (Class 1-10)

LATEX FREE

Part Number	Size	Length	Height	Sole Width	Color	Packaging	Total/Case
VTSHCVPPLWNE-SM	SM	10”	6”	4¼”	white	50 ea/bag, 4 bags/case	200 ea/case
VTSHCVPPLWNE-MD	MD	11¼”	6”	4¼”	white	50 ea/bag, 4 bags/case	200 ea/case
VTSHCVPPLWNE-LG	LG	13¼”	6”	4½”	white	50 ea/bag, 4 bags/case	200 ea/case
VTSHCVPPLWNE-XL	XL	14¼”	6”	4¾”	white	50 ea/bag, 4 bags/case	200 ea/case
VTSHCVPPLWNE-2X	2X	15”	6”	4¾”	white	50 ea/bag, 4 bags/case	200 ea/case

Polyethylene Coated Polypropylene PVC Sole Boot Cover PDF

- 100% non-linting, non-woven, spunbond polypropylene coated with polyethylene
- Disposable, lightweight and breathable
- Stitched seams and elastic leg cuffs
- Non-skid PVC sole provides excellent protection against wet and smooth surfaces
- Superior coefficient of friction

This boot cover is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment that requires high contamination control and cleanliness.

NanoTek
ISO 3-4 (Class 1-10)

LATEX FREE

Part Number	Size	Length	Height	Sole Width	Color	Packaging	Total/Case
VTBTCVPPLVW-MD	MD	11¼”	18”	4¼”	white	20 ea/bag, 10 bags/case	200 ea/case
VTBTCVPPLVW-LG	LG	13¼”	18”	4¾”	white	20 ea/bag, 10 bags/case	200 ea/case
VTBTCVPPLVW-XL	XL	15”	18”	4¾”	white	20 ea/bag, 10 bags/case	200 ea/case

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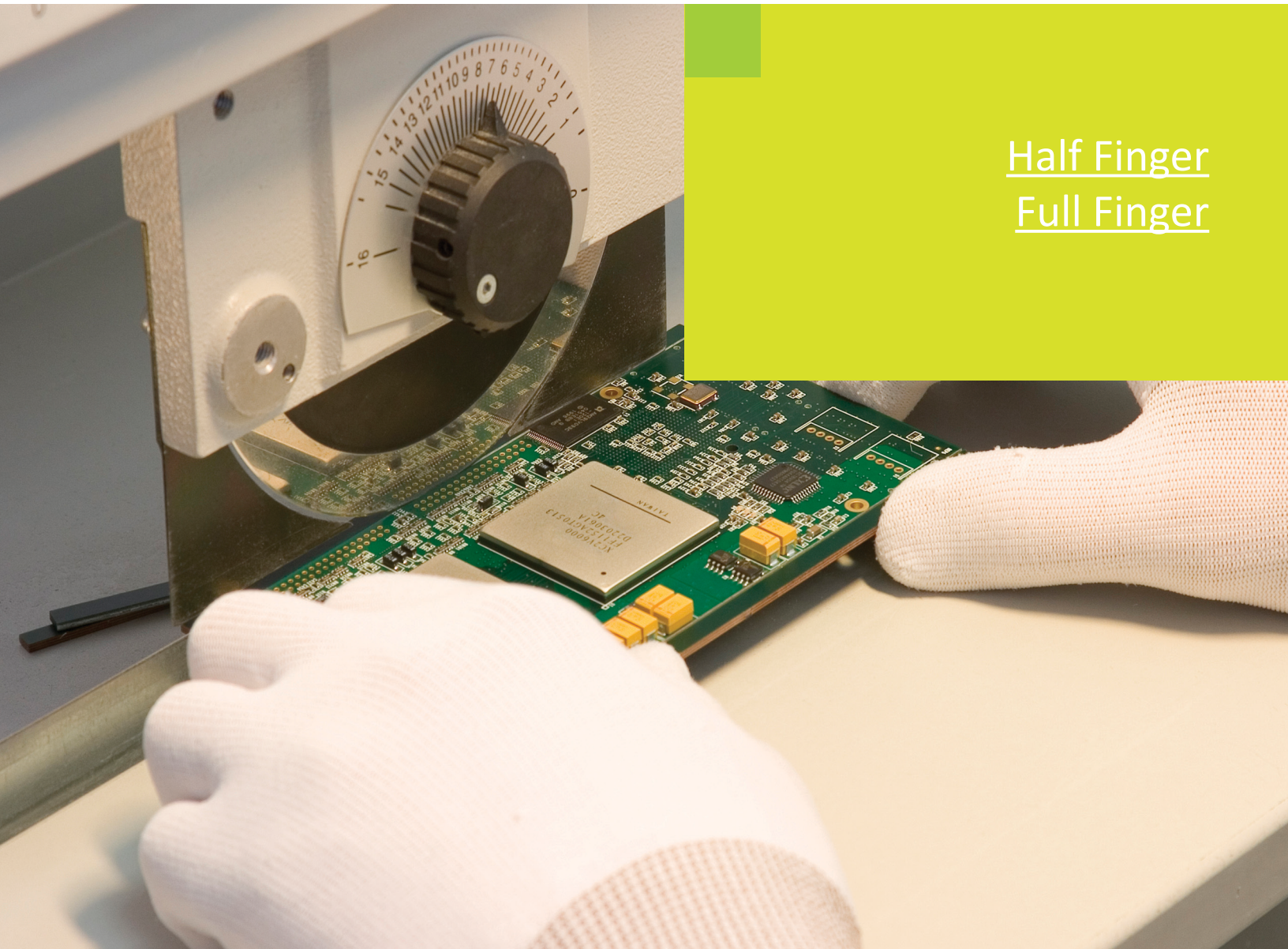
Glove Liners

Keep operators happy



[Half Finger]
[Full Finger]

Glove liners, also known as under gloves, makes wearing a clean-room glove more comfortable to the operator.

They can also double as an excellent inspection glove. Valutek glove liners are constructed of a breathable, 13-gauge, 100% virgin nylon knit, providing a comfortable buffer of air between the operator's skin and the glove.

Independent studies have shown that glove liners will:

- Reduce the number of glove changes per day because operators' hands will not get that sticky feeling from direct contact glove.
- Eliminate operator down-time due to skin irritations and dermatitis caused by wearing glove alone.
- Increase productivity. Because happy operators are more likely to follow protocols.

All Valutek glove liners are packaged in poly bags with a carton liner in Microtek carton boxes. They are controlled environment compatible, part number and lot number traceable.

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Half Finger Nylon Glove Liners PDF

- Non-linting, 100% knitted virgin nylon material limits skin irritation caused by direct contact with glove material
- Half finger design
- Lightweight, durable and comfortable
- Universal size and ambidextrous shape for easy stock control

This glove liner is recommended for use in cleanroom Class 100-1000 (ISO 5-6) critical environment. Wearing under latex, PVC or nitrile gloves for operator skin protection and hand comfortability.

MicroTek
ISO 5-6 (Class 100- 1.000)

Part Number	Size	Color	Packaging	Total/Case
VTGNLR-1/2	Universal	White	12 pairs/bag, 35 bags/case	420 ea/case

Can be Laundered · REUSABLE · LATEX FREE

Full Finger Nylon Glove Liners PDF

- Non-linting, 100% knitted virgin nylon material limits skin irritation caused by direct contact with glove material
- Full finger design
- Lightweight, durable and comfortable
- Universal size and ambidextrous shape for easy stock control

This glove liner is recommended for use in cleanroom Class 100-1000 (ISO 5-6) critical environment. Wearing under latex, PVC or nitrile gloves for operator skin protection and hand comfortability.

MicroTek
ISO 5-6 (Class 100- 1.000)

Part Number	Size	Color	Packaging	Total/Case
VTGNLR-1/1	Universal	White	12 pairs/bag, 20 bags/case	240 ea/case

Can be Laundered · REUSABLE · LATEX FREE

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Adhesive Mats

Keep a clean path to your cleanroom

Adhesive Mat Selection Guide

Disposable Mats

Disposable Mats are manufactured to create a stack of polyethylene film sheets coated with a specially treated pressure sensitive adhesive on the exposed and mounting surfaces. The mat adhesive film effectively captures dirt and dust from foot-traffic and equipment wheels before they enter the controlled environment being protected. There are typically 30 or 60 sheets per mat. Valutek sheets have corner tabs that are consecutively numbered to show the number of remaining sheets.

"Everyday contamination can lead to a dramatic outcome failure, and most of the contamination found in your controlled environment walks right in through the gowning room door"
Greg Heiland - critical-tips.com

The three key attributes Valutek 'engineers into' its adhesive mats

Mat tack level

The 'tack' level is the 'stickiness' of the mat. The adhesive strength needs to be correctly balanced during manufacturing for optimal mat performance

Adhesive Softness

If the adhesive is too hard, particles will not transfer from the shoe or wheel to the mat. If it's too soft, adhesive transfer to the shoe or wheel can occur

Film & Adhesive Thickness

Typical adhesive layers have a thickness between 2 and 4 millimeters (50-100 microns). If the adhesive layer is too thin, the particles will remain on the surface and shorten the useful life of the mat

Choosing a Mat Color Which mat is right for your specific application?

MacroTek

Gray mat: recommended for use in **ISO 7 + (Class 10,000+ Cleanroom)** environments or higher. Conceals dirt particles which is more aesthetic in less clean environments but unsuitable for more stringent uses.
Recommended sizes: 18" x 36" and 24" x 36"

MicroTek

Blue mat: recommended for use in **ISO 5-6 (Class 100-1,000 Cleanroom)** environments. Provides a good balance between particle visibility and aesthetic qualities. Our most popular mat type.
Recommended sizes: 24" x 36" and 26" x 45"

NanoTek

White mat: recommended for use in **ISO 3-4 (Class 1-10 Cleanroom)** environments. The combination of consistent adhesive properties and highest particle visibility make it the perfect solution for the cleanest and most critical environments.
Recommended sizes: 36" x 45", 36" x 60", and 36" x 72"

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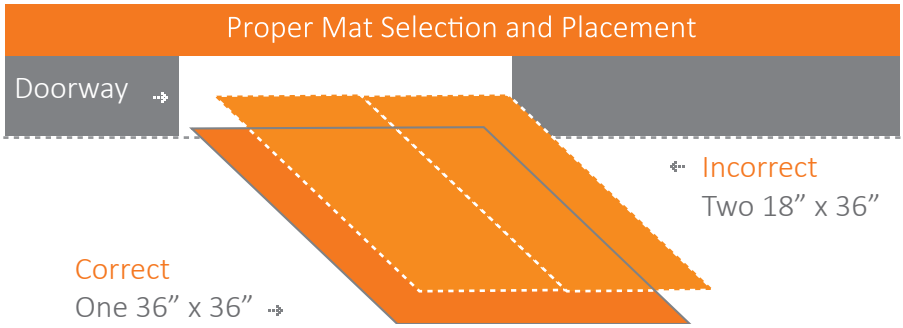
Choose a Mat Size

To determine your correct mat size, observe the position, type and size of the doorway you wish to protect, as well as foot and cart traffic patterns entering and leaving the controlled environment

Selection Tip: Avoid 'tiling' mats

Avoid 'tiling' multiple mats at a doorway entrance, as this decreases performance. For example, if the doorway leading to your cleanroom is 36" wide, we recommend spanning the entire entrance with one 36" wide mat. Tiling mats allows particulates to become trapped between mat joints and create a cross contamination risk. (In this example, avoid using two 18" mats side-by-side to create a 36" surface). Also, when changing sheets, remember to start at the tabbed corner (which should be closest to the doorway), and work your way into the middle, rolling the waste film into a ball as you go.



Remember:

1. The more critical the cleanroom, the larger the mat size

2. Choose a size large enough that individuals will not be able to avoid walking on the mat.

Adhesive mats sizes: 18"x36", 18"x45", 24"x36", 26"x45", 36"x36", 36"x45", 36"x60", 36"x72".

What makes Valutek's Adhesive Mats the market leader?

- Each mat sheet removes up to 95% of particles at .30-micron range
- Thicker than competitor mats at 0.05 microns film thickness
- Sheet corner labelled tabs assist in removing layers easily & tracking layer usage
- Our standard adhesive mats contain an anti-microbial agent to help kill live bacteria
- Optimized adhesive strength 'tack' formulation on all mat sizes
- Eco-friendly odorless water-based adhesive used in all mats
- Valutek product quality & innovation 'engineered in'
- Unique packaging to protect against damage & ensure product authenticity
- Valutek's renowned customer service & unconditional product guarantee

Click here to download the detailed **Adhesive Mat Installation Guide**

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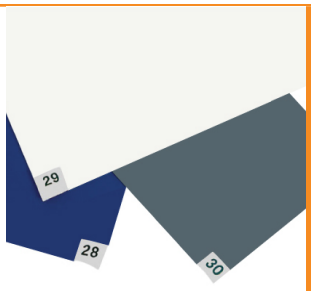
Adhesive Mat PDF



- 30-layer low density polyethylene adhesive mats
- Acrylic (water based) adhesiveness
- Can Effectively capture dirt and dust from foot-traffic and equipment wheels
- Special adhesive coating provides an effective means of reducing contamination by trapping and preventing the transfer of particles

These adhesive mats are suitable for Macrotek, Microtek and Nanotek applications. The mats are ideal for a wide range of applications including cleanroom entrances, gowning rooms, laboratories or work stations that require high levels of foot-borne contamination control. Adhesive mats are widely used in a variety of industries including semiconductor, biotechnology, medical device, pharmaceutical, aerospace, automotive and construction.

18” x 36”

Part Number	Layers	Color	Packaging	Total/Case
VT18364P30L-B	30	Blue	4 mats/case	120 sheets/case
VT18364P30L-W	30	White	4 mats/case	120 sheets/case
VT18364P30L-G	30	Grey	4 mats/case	120 sheets/case

18” x 45”

Part Number	Layers	Color	Packaging	Total/Case
VT18454P30L-B	30	Blue	4 mats/case	120 sheets/case
VT18454P30L-W	30	White	4 mats/case	120 sheets/case
VT18454P30L-G	30	Grey	4 mats/case	120 sheets/case

24” x 36”

Part Number	Layers	Color	Packaging	Total/Case
VT24364P30L-B	30	Blue	4 mats/case	120 sheets/case
VT24364P30L-W	30	White	4 mats/case	120 sheets/case
VT24364P30L-G	30	Grey	4 mats/case	120 sheets/case

26” x 45”

Part Number	Layers	Color	Packaging	Total/Case
VT26454P30L-B	30	Blue	4 mats/case	120 sheets/case
VT26454P30L-W	30	White	4 mats/case	120 sheets/case
VT26454P30L-G	30	Grey	4 mats/case	120 sheets/case

36” x 36”

Part Number	Layers	Color	Packaging	Total/Case
VT36364P30L-B	30	Blue	4 mats/case	120 sheets/case
VT36364P30L-W	30	White	4 mats/case	120 sheets/case
VT36364P30L-G	30	Grey	4 mats/case	120 sheets/case

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Adhesive Mat (Continued)

36” x 45”

Part Number	Layers	Color	Packaging	Total/Case
VT36454P30L-B	30	Blue	4 mats/case	120 sheets/case
VT36454P30L-W	30	White	4 mats/case	120 sheets/case
VT36454P30L-G	30	Grey	4 mats/case	120 sheets/case

36” x 60”

Part Number	Layers	Color	Packaging	Total/Case
VT36604P30L-B	30	Blue	4 mats/case	120 sheets/case
VT36604P30L-W	30	White	4 mats/case	120 sheets/case
VT36604P30L-G	30	Grey	4 mats/case	120 sheets/case

36” x 72”

Part Number	Layers	Color	Packaging	Total/Case
VT36724P30L-B	30	Blue	4 mats/case	120 sheets/case
VT36724P30L-W	30	White	4 mats/case	120 sheets/case

Adhesive Mat Frame PDF

- Clean and durable polystyrene material with a 1/8” thick poly-vinyl web coating
- Eliminates floor maintenance and damage resulting from mat placement on floor
- Sized accordingly to available Valutek adhesive mat sizes
- Improves floor cleaning protocol

The adhesive mat frame is intended for use with the adhesive mat. The adhesive mats can be removed and re-applied for re-use of the frame.

Part Number	Available Sizes	Color	Suit Mat Sizes	Packaging
VTFRM-2038	20” x 38”	white	18” x 36”	1 frame/case
VTFRM-2638	26” x 38”	white	24” x 36”	1 frame/case
VTFRM-2847	28” x 47”	white	26” x 45”	1 frame/case
VTFRM-3838	37” x 37”	white	36” x 36”	1 frame/case
VTFRM-3847	38” x 47”	white	36” x 45”	1 frame/case
VTFRM-3862	38” x 62”	white	36” x 60”	1 frame/case
VTFRM-3874	38” x 74”	white	36” x 72”	1 frame/case

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Cleaning and Maintenance

Ensure your environment's clean operation

Mop Heads
Adhesive Roller

Rigorous cleaning regimes in a controlled environment are a vital but often overlooked activity for proper cleanroom operation. Floors, walls and ceilings are just as important to keep clean as workstations and process equipment.

A comprehensive cleanroom maintenance protocol will help ensure your facilities are operating within your specified upper and lower parameters. Valutek offers cleaning products that will ensure the cleanliness of your critical environment without generating additional contaminations.

Product Options

Floor Mops
Used for cleaning non-raised floors and mats, and are designed to clean large surface areas quickly and efficiently.

Flat Mops
Highly effective for removing surface contamination from flat, textured surfaces, such as floors and tables. They are also ideal at cleaning raised floors. In addition, the 360° pivoting head makes flat mops particularly useful for cleaning vertical surfaces like walls.

Adhesive Rollers
Very effective for removing particulates on smooth, dry surfaces during unscheduled and non-evasive cleanups.

Packaging

Valutek's cleaning products are packaged in poly bags with a carton liner in carton boxes. They are controlled environment compatible, part number and lot number traceable.

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Polyester Floor Mop Head PDF

- Made with 100% non-linting white filament polyester in strands to absorb and encapsulate liquids for maximum sorptive capacity
- Autoclavable
- Laundered and packaged in a cleanroom

This mop head is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. The mop head is compatible with a wide range of chemicals. This makes it ideal for single use of wet mopping of floors in controlled environments, such as lab and process area floor cleaning.

MicroTek
ISO 5-6 (Class 100- 1.000)

Can be Laundered

REUSABLE

* This mop head is compatible with Geerpres mop handle # 2640, # 2641.

Part Number	Size	Weight	Packaging	Total/Case
VTPNWMOP-716	7” x 16”	16 oz	1 ea/bag, 20 bags/case	20 ea/case

Tubular Polyester Cleanroom Mop Head PDF

- Made with 1/2” knitted tube, 100% white filament polyester in a spaghetti style looped to form edgeless tubular strands to absorb and encapsulate liquids for maximum sorptive capacity.
- Autoclavable with extremely low particle and fiber generation
- Laundered and packaged in a cleanroom

This mop head is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment. This mop head is compatible with a wide range of chemicals. This makes it ideal for wet mopping of floors in controlled environments such as lab and process area floor cleaning. The durable design of this mop head allows for multiple washings. The mop head fits standard mop handles.

NanoTek
ISO 3-4 (Class 1-10)

Can be Laundered

REUSABLE

* This mop head is compatible with Geerpres mop handle # 2640, # 2641.

Part Number	Size	Weight	Packaging	Total/Case
VTCRMOP-716	7” x 16”	16 oz	1 ea/bag, 20 bags/case	20 ea/case

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Mop Head

Polyester Cleanroom Flat Mop Head PDF

- Made with 1/4” knitted tube, 100% white filament polyester looped to form edgeless tubular strands to absorb and encapsulate liquids for maximum sorptive capacity.
- Flat design slides easily on walls or floors
- Autoclavable with extremely low particle and fiber generation
- Laundered and packaged in a cleanroom

This mop head is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment. This mop head’s unique flat design provides for smooth sliding and makes it ideal for wiping perforated floor tiles in micro-electronics applications. The mop head fits standard wall mop handles.

* This mop head is compatible with Geerpres mop handle # 2668, # 2653 and # 2682.

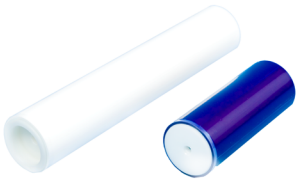
NanoTek
ISO 3-4 (Class 1-10)

Can be Laundered

REUSABLE

Part Number	Size	Weight	Packaging	Total/Case
VTCRMOPF-4516	4.5” x 16”	16 oz	1 ea/bag, 50 bags/case	50 ea/case

Adhesive Roller



Polyethylene Film Adhesive Roller PDF

- Polyethylene and acrylic solvent based adhesive sheets
- Adhesive contains bactericide for killing surface bacteria on contact
- Available in blue or white color

This adhesive roller is recommended for use in a cleanroom Class 100-1,000(ISO 5-6) critical environment that requires high contamination control and cleanliness. It is designed to effectively capture dirt and dust from smooth surfaces such as floors, walls, and ceilings in controlled environments.

MicroTek
ISO 5-6 (Class 100- 1.000)

Part Number	Size	Color	Packaging
VTTRLRB-9	9”	Blue	107 sheets/roll, 8 rolls/case
VTTRLRW-18	18”	White	107 sheets/roll, 4 rolls/case

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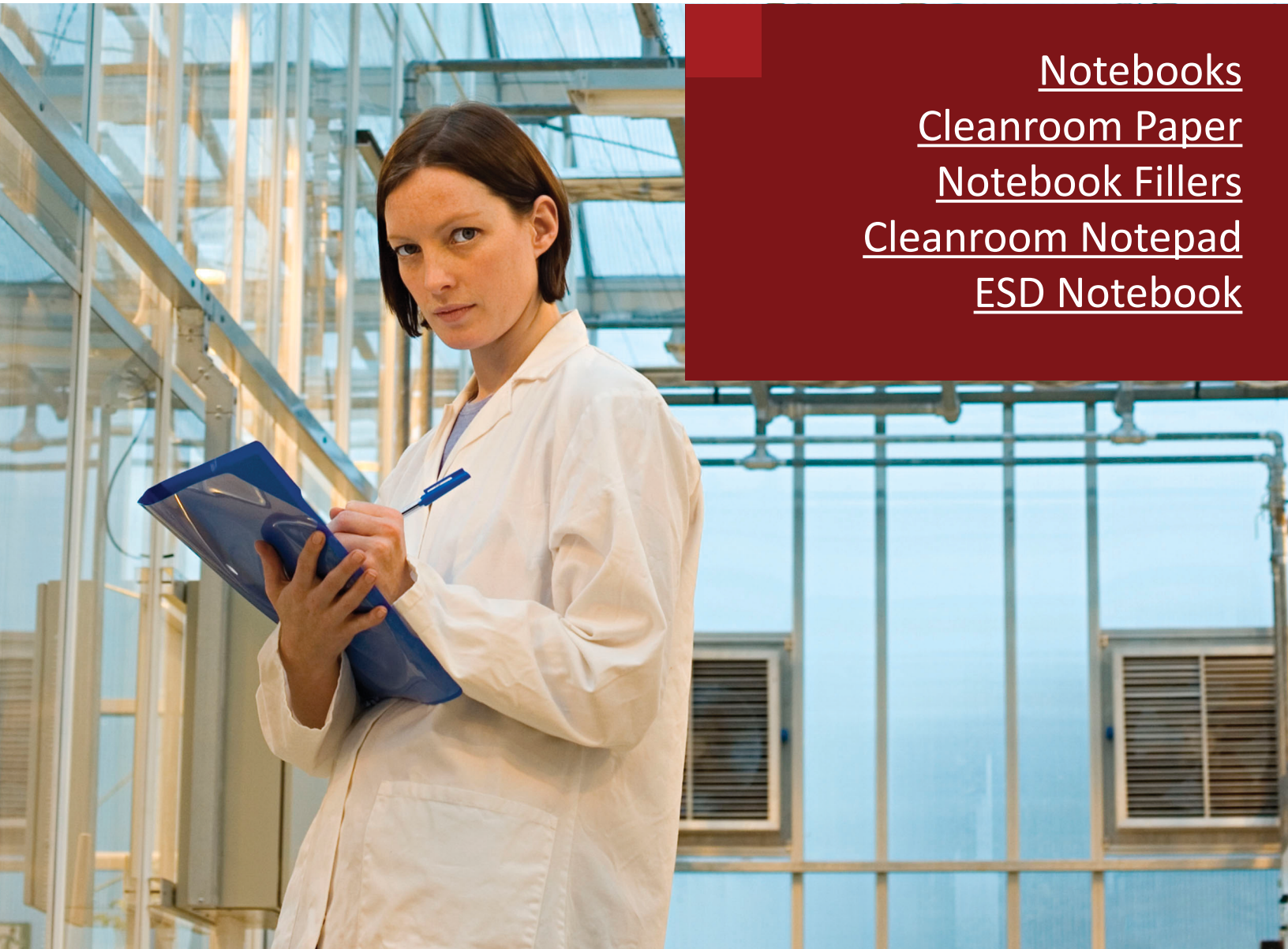
Documentation

Contaminant - Free, Archive - Safe



Notebooks
Cleanroom Paper
Notebook Fillers
Cleanroom Notepad
ESD Notebook

Paper Selection Guide

Cleanroom Documentation

A cleanroom environment requires a specialized paper that will not introduce any contamination like particulates or fillers. At the same time, this same paper needs to work with all traditional office equipment like high-speed laser copiers/printers. It also requires the ability to be archived for indefinite periods of time. Regular paper that used in the office is made of cellulose (wood pulp and fibers). This type of paper particulates heavily when used and is a substantial source of contamination. Cleanroom documentation is made from low particulate filler and fibers that are coated with latex, which ensure the cleanliness of your controlled environments.

Three Paper Selection Criteria:

Base Substrate

What is the paper made of? Many lower quality papers contain ash fillers, which means they will introduce particulates when torn or folded. Valutek's papers is 100% filler-free.

Uniformity

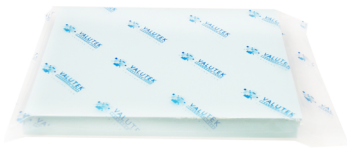
Valutek paper goes through a stringent calendering process, which reduces the size of the fibers, forms them into a page, and provides additional stability and uniform flatness. This technical paper receives more calendaring than standard paper, and has greater success of passing through high-speed laser copiers and printers.

Coating

Cleanroom paper should be impregnated with a synthetic coating. Beware of low-cost options, which contain lower quality latex and resin treatments.

Packaging

Valutek's cleanroom documentation is packaged in poly bags with a carton liner in carton boxes. They are critical environment compatible, part number and lot number traceable.



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Cleanroom College Rule Spiral-Bound Notebooks PDF

- Synthetic polymer impregnated paper
- Semitransparent high-density polypropylene cover
- Excellent ink absorption
- IPA resistant low sodium ink printed pages have low fiber and particle generation and ionic contamination

The notebooks are commonly used for note taking, recording and data transferring in a cleanroom Class 1 -10 (ISO 3-4) critical environment. The pages of the notebooks are compatible to most inks without smearing, they also have the ability to lay flat which ensures flexibility and ease of use.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size	Color	Style	Packaging	Total/Case
VTNBCR-35	3” x 5”	White	100 pages, top spiral-bound	1 ea/bag, 100 bags/case	100 ea/case
VTNBCR-5585	5.5” x 8.5”	White	100 pages, side spiral-bound	1 ea/bag, 40 bags/case	40 ea/case
VTNBCR-8511	8.5” x 11”	White	100 pages, side spiral-bound	1 ea/bag, 20 bags/case	20 ea/case

23 LB, Letter Size Cleanroom Paper PDF

- Special formulated with cellulose fiber, surrounded and bonded by a polymer impregnated substrate.
- Excellent ink absorption
- Improved uniformity for use with laser printers and copy machines
- Available in a variety of colors

This cleanroom paper is commonly used for note taking, laser printing and photocopies. It is also used as a form and log sheet in a cleanroom Class 1 -10 (ISO 3-4) critical environment. It is compatible to most inks without smearing while ensuring low particle and fiber generation and low ionic contamination.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size	Color	Weight	Packaging	Total/Case
VTCRPS23B-8511	8.5” x 11”	Blue	23 lbs	250 sheets/ream, 10 reams/case	2500 sheets/case
VTCRPS23G-8511	8.5” x 11”	Grey	23 lbs	250 sheets/ream, 10 reams/case	2500 sheets/case
VTCRPS23O-8511	8.5” x 11”	Orange	23 lbs	250 sheets/ream, 10 reams/case	2500 sheets/case
VTCRPS23P-8511	8.5” x 11”	Pink	23 lbs	250 sheets/ream, 10 reams/case	2500 sheets/case
VTCRPS23W-8511	8.5” x 11”	White	23 lbs	250 sheets/ream, 10 reams/case	2500 sheets/case
VTCRPS23Y-8511	8.5” x 11”	Yellow	23 lbs	250 sheets/ream, 10 reams/case	2500 sheets/case

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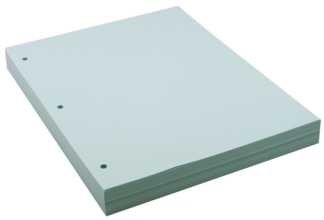
30LB, Letter and Tabloid Size Cleanroom Paper PDF

- Special formulated with cellulose fiber, surrounded and bonded by a polymer impregnated substrate.
- Excellent ink absorption
- Improved uniformity for use with laser printers and copy machines

This cleanroom paper is commonly used for note taking, printing, as well as a form and log sheet in a cleanroom Class 1 -10 (ISO 3-4) critical environment. It is compatible to most inks without smearing while ensuring low particle and fiber generation as well as low ionic contamination.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size	Color	Weight	Packaging	Total/Case
VTCRPS30B-1117	11” x 17”	Blue	30 lb	250 sheets/ream, 5 reams/case	1250 sheets/case
VTCRPS30W-1117	11” x 17”	White	30 lb	250 sheets/ream, 5 reams/case	2500 sheets/case
VTCRPS30W-8511	8.5” x 11”	White	30 lb	250 sheets/ream, 10 reams/case	2500 sheets/case



3-Hole, Letter Size Cleanroom Notebook Filler Paper PDF

- Synthetic polymer impregnated paper
- Excellent ink absorption
- Sealed in poly bags for maximum cleanliness

This filler paper is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size	Color	Weight	Packaging	Total/Case
VTCRPS23B-8511P	8.5” x 11”	Blue	23 lb	250 sheets/ream, 10 reams/case	2500 sheets/case

Cleanroom Sticky Notepad PDF

- Synthetic polymer impregnated paper with removable, residue-free adhesive backing
- Sealed in poly bags for maximum cleanliness

The notepads are commonly used for note taking, reminders and document annotation in a cleanroom Class 1 -10 (ISO 3-4) critical environment.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size	Color	Weight	Packaging	Total/Case
VTNPCR-34	3” x 4”	Blue	23 lb	100 sheets/pad, 5 pads/bag,10 bags/case	5000 sheets/case

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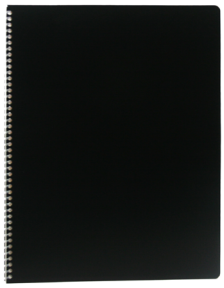
ESD Cleanroom Notebook PDF



- High-density polypropylene cover with an impregnated antistatic property and excellent chemical resistance
- Synthetic polymer impregnated paper
- Excellent ink absorption
- IPA resistant low sodium ink printed pages have low fiber and particle generation and ionic contamination

This notebook is commonly used for note taking, recording, data transferring in a cleanroom Class 1 -10 (ISO 3-4) critical environment where ESD safety is of paramount importance. The pages of the notebook are compatible with most inks in writing without smearing, also they are rotating with ability to lay flat which ensures flexibility and ease of use.

NanoTek
ISO 3-4 (Class 1-10)

ESD Static Dissipative

Part Number	Size	Style	Packaging	Total/Case
VTNBCRE-8511	8.5” x 11”	100 pages, side spiral-bound	1 ea/bag, 20 bags/case	20 ea/case

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ESD

Prevent discharge, protect your products

Wipers
Gloves
Finger Cots
Shoe Covers
Grounders
ESD Notebook

The “other” type of contamination

Electrostatic Discharge (ESD) prevention is a serious issue in electronics, aerospace, and semiconductor industries. Invisible and undetectable, it can be more harmful than particulate contamination on a microchip. Even though sub-micron “charged particles” inside a cleanroom are invisible to the naked eye, they can cause significant damage and result in product failure. The best defense against a tribo event is proper grounding in conjunction with humidity and temperature control.

The best way to protect sensitive electronics is to ensure all operators are grounded, and to wear the appropriate gear that eliminates or dissipates static build-up. Valutek has a variety of products specially designed to meet your ESD requirements.

Cleanroom Compatible Packaging

Valutek’s ESD products are packaged in poly bags with a carton liner in carton boxes. They are critical environment compatible, part number and lot number traceable.

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What is the difference between static dissipative and anti-static materials?

Static dissipative materials will not generate a potential hazardous charge while also grounding many potentially hazardous charges. Static dissipative material is commonly used for highly sensitive electronics and is certified to meet electronic industry standards. Anti-static materials are incorporated into packaging for less sensitive and passive electronics entering a static sensitive environment. The anti-static material is similar to static dissipative material in that it will not generate a charge, but differs in that it will not dissipate a charge. In short, both static dissipative and anti-static materials reduce the risk of producing a charge, but only static dissipative protects against existing charges as well.

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ESD Polyester Wiper PDF

- 100% continuous filament, double-knit polyester fiber
- Basis weight: 155 g/m^2
- Cold knife cut edges
- Chemically compatible with IPA and other common solvents
- Excellent absorbency and abrasion resistance
- Low levels of particulate and extractable counts
- Low in fibers generation

This wiper is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is commonly used in a wide variety of applications, such as optics and LCD screen cleaning, electronic manufacturing, optical cleaning and pharmaceutical manufacturing.

MicroTek
ISO 5-6 (Class 100- 1.000)

Part Number	Size		Packaging	Total/Case
VTPNWESD-99	9” x 9”	23 cm x 23 cm	150 ea/bag, 8 bags/case	1200 ea/case

ESD Static Dissipative

Pre-Wetted Laser-Sealed Polyester Wiper in ESD Pouch PDF

- 100% continuous filament, double-knit polyester fiber
- Laser sealed (thermally sealed) edge for reduced fiber contamination
- Pre-wetted with a blend of 70% IPA and 30% DI water.
- Packaged in a resealable static shield bag for ESD sensitive environments
- Very low levels of particles, fibers, ions and extractables
- The pre-wet solution increases both cleaning efficiency and cleaning protocol consistency

This pre-wetted wiper is designed for use in wet cleaning of critical surfaces where control of flammable solvents and flammable solvent concentrations is required. It is also ideal for critical wiping applications where static control is paramount.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size		IPA/DI H_20(%)	Packaging	Total/Case
VTPNWLSI70-99F	9” x 9”	23 cm x 23 cm	70/30	30 ea/pouch, 20 pouch/case	600 ea/case

ESD Static Dissipative

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Nitrile Powder-Free 9.5” Glove PDF

- 100% clean, synthetic nitrile polymer (Acrylonitrile Butadiene)
- Accelerator & sulfur free
- Contains no fillers, silicones or plasticizers
- 9.5”/240 mm length with beaded long cuff
- Textured fingertips
- Powder-free, double chlorination, filtered water rinse
- ESD compliant and acid and solvent compatible

This cleanroom packaged glove is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is also commonly used in a wide variety of applications including semiconductor, pharmaceutical, food handling, laboratory work, electronic, intricate parts handling, and maintenance and cleanup.

MicroTek
ISO 5-6 (Class 100- 1.000)

Ambidextrous · ESD Static Dissipative · LATEX FREE

Part Number	Size	Packaging	Total/Case
VTGNPFB95-XS	XS	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB95-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB95-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB95-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB95-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case

Nitrile Glove

Nitrile Powder-Free 12” Glove PDF

- 100% clean, synthetic nitrile polymer (Acrylonitrile Butadiene)
- Accelerator & sulfur free
- Contains no fillers, silicones or plasticizers
- 12”/290 mm length with beaded long cuff
- Textured fingertips
- Powder-free, double chlorination, filtered water rinse
- ESD compliant and acid and solvent compatible

This cleanroom packaged glove is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is also commonly used in a wide variety of applications, including semiconductor, pharmaceutical, food handling, laboratory work, electronic, intricate parts handling, and maintenance and cleanup.

MicroTek
ISO 5-6 (Class 100- 1.000)

Ambidextrous · ESD Static Dissipative · LATEX FREE

Part Number	Size	Packaging	Total/Case
VTGNPFB12-XS	XS	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB12-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB12-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB12-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB12-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case
VTGNPFB12-2X	2X	100 ea/bag, 10 bags/case	1000 ea/case

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Multi-Task 'Arizona Blue' Nitrile Glove PDF

- 100% clean, synthetic nitrile polymer (Acrylonitrile Butadiene)
- Accelerator & sulfur free
- Cleanroom compatible packaging for proper donning
- 9"/230 mm length with beaded cuff
- Textured fingertips
- Powder-free, single chlorination
- ESD compliant

This cleanroom packaged glove is recommended for use in a cleanroom Class 10.000+ (ISO7+) critical environment. It is also recommended for non-sterile Life Science applications (Medical device and Pharmaceutical), as well as general purpose, non-critical applications. It is also suitable as a donning glove.

MacroTek
ISO 7+ (Class 10.000+)

ESD Static Dissipative · Ambidextrous · LATEX FREE

Part Number	Size	Packaging	Total/Case
VTGNMTPFB90AB-XS	XS	100 ea/bag, 10 bags/case	1000 ea/case
VTGNMTPFB90AB-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGNMTPFB90AB-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGNMTPFB90AB-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGNMTPFB90AB-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case
VTGNMTPFB90AB-2X	2X	100 ea/bag, 10 bags/case	1000 ea/case

Ultra Thin Nitrile Powder-Free 9.5" Glove PDF

- 100% clean, synthetic nitrile polymer (Acrylonitrile Butadiene)
- Accelerator & sulfur free
- Contains no fillers, silicones or plasticizers
- 9.5"/240mm length with beaded standard cuff
- Textured fingertips
- Powder-free, double chlorination, filtered water wash
- ESD compliant and acid and solvent compatible

This cleanroom packaged glove is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is also commonly used in a wide variety of applications, including semiconductor, pharmaceutical, food handling, laboratory work, electronic, intricate parts handling, and maintenance and cleanup.

MicroTek
ISO 5-6 (Class 100- 1.000)

ESD Static Dissipative · Ambidextrous · LATEX FREE

Part Number	Size	Packaging	Total/Case
VTGNUTPFB95-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGNUTPFB95-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGNUTPFB95-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGNUTPFB95-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case

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Nitrile Cleanroom 12” Glove PDF

- 100% clean, synthetic nitrile polymer (Acrylonitrile Butadiene)
- Accelerator & sulfur free
- 12”/290 mm length with beaded long cuff
- Textured fingertips
- Powder-free, double chlorination, 18 mega ohms D.I. water rinse
- Low levels of particles and extractable counts
- ESD compliant and acid and solvent compatible

This cleanroom packaged glove is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment. It is also recommended for use in a wide variety of applications that require an extremely clean glove such as wafer fabrication, disk drives, semiconductor, biotechnology, non-aseptic pharmaceutical and optics.

NanoTek
ISO 3-4 (Class 1-10)

Ambidextrous · ESD Static Dissipative · LATEX FREE

Part Number	Size	Packaging	Total/Case
VTGNCRB12-XS	XS	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRB12-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRB12-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRB12-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRB12-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case
VTGNCRB12-2X	2X	100 ea/bag, 10 bags/case	1000 ea/case

PVC Powder-Free Cleanroom 12” Glove PDF

- Polyvinyl chloride plastic material
- 12”/290mm length with beaded long cuff
- Ambidextrous shape
- Disposable and light weight
- Light bisque texture
- ESD compliant
- Low levels of particulate and extractable counts

This cleanroom packaged glove is recommended for use in a cleanroom Class 1-10 (ISO 3-4) critical environment. It is also recommended for use in a variety of applications including electronics, pharmaceutical, laboratory and device manufacturing.

NanoTek
ISO 3-4 (Class 1-10)

Ambidextrous · ESD Static Dissipative · LATEX FREE

Part Number	Size	Packaging	Total/Case
VTGVCRB12-SM	SM	100 ea/bag, 10 bags/case	1000 ea/case
VTGVCRB12-MD	MD	100 ea/bag, 10 bags/case	1000 ea/case
VTGVCRB12-LG	LG	100 ea/bag, 10 bags/case	1000 ea/case
VTGVCRB12-XL	XL	100 ea/bag, 10 bags/case	1000 ea/case

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Antistatic White Nitrile Finger Cot PDF

- 100% clean, synthetic nitrile polymer (Acrylonitrile Butadiene)
- 2.75” length, rolled with beaded edge
- Powder-free, sulphur free and protein free
- Consistent antistatic power, suitable for ESD sensitive components
- Excellent oil, grease and chemical resistance

This finger cot is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is ideal for the handling of Class II ESD sensitive devices (with thresholds above 100V), electronic assembly and medical device manufacturing.

MicroTek
ISO 5-6 (Class 100- 1.000)

Part Number	Size	Color	Packaging	Total/Case
VTCNRPF-SM	SM	White	5 gross pieces/bag, 18 bags/case	12960 ea/case
VTCNRPF-MD	MD	White	5 gross pieces/bag, 18 bags/case	12960 ea/case
VTCNRPF-LG	LG	White	5 gross pieces/bag, 18 bags/case	12960 ea/case
VTCNRPF-XL	XL	White	5 gross pieces/bag, 14 bags/case	10080 ea/case

ESD Static Dissipative

LATEX FREE

Conductive Black Latex Finger Cot PDF

- 100% natural latex material provides the highest degree of dexterity
- 2.75” length, rolled with beaded edge
- Treated with minimum level of powder
- Consistent antistatic power
- Reduced protein level and low particle counts and extractable

This finger cot is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is also commonly used in a wide variety of applications, including handling circuit board, static sensitive electronic devices, handling ESD components and semiconductor applications.

*This product contains natural rubber latex which may cause allergic reactions in some individuals.

MicroTek
ISO 5-6 (Class 100- 1.000)

Part Number	Size	Color	Packaging	Total/Case
VTCLCONPF-SM	SM	Black	5 gross pieces/bag, 18 bags/case	12960 ea/case
VTCLCONPF-MD	MD	Black	5 gross pieces/bag, 18 bags/case	12960 ea/case
VTCLCONPF-LG	LG	Black	5 gross pieces/bag, 18 bags/case	12960 ea/case
VTCLCONPF-XL	XL	Black	5 gross pieces/bag, 14 bags/case	10080 ea/case

ESD Static Dissipative

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Anti-Skid Polypropylene ESD Shoe Cover PDF

- 100% non-linting, non-woven spunbond polypropylene fabric with stitched seams
- Disposable, lightweight, strong and durable
- Elastic ankle cuffs
- Sprayed latex anti-skid treads on the bottom for safety
- A 19.6” long conductive ribbon stitched on a solid seam to provide ESD grounding

This shoe cover is recommended for use in a cleanroom Class 10,000+ (ISO 7+) critical environment. It is commonly used for protecting against dirt, grime and certain dry particulates in nonhazardous environments and for protecting sensitive devices in the work area.

MacroTek
ISO 7+ (Class 10.000+)

ESD Static Dissipative

LATEX FREE

Part Number	Size	Length	Height	Color	Packaging	Total/Case
VTSHCVASESDLF-L	LG	16”	6”	Blue	100 ea/bag, 3 bags/case	300 ea/case
VTSHCVASESDLF-X	XL	18”	6”	Blue	100 ea/bag, 3 bags/case	300 ea/case

Adjustable Fabric Wristband and Cord Set PDF

- Polyester with silver-plated nylon thread for conductivity
- 360° contact around the entire wrist ensures maximum grounding
- Polyurethane coil insulation offers excellent coil memory
- 10-millimeters snap with 1-5 pound pressure release
- 160 mega ohm maximum resistance
- 10 feet extended length coil cord with swivel edge in blue color offers 1 mega ohm resistor and over 50,000 flexes

This wristband and cord set is recommended for use in cleanroom Class 100-1000 (ISO 5-6) critical environment. It is also commonly used in a wide variety of applications where ESD is of paramount importance.

MicroTek
ISO 5-6 (Class 100- 1.000)

ESD Static Dissipative

Part Number	Length	Packaging	Total/Case
VTWS-10	10 feet	1ea/bag, 50 bags/pack, 5 packs/case	250 ea/case

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Adjustable Fabric Heel Grounder PDF

- Velcro closure, durable molded resistor, 35mm cup design
- 1 mega ohm molded resistor
- Silver conductive yarn in gray ribbon
- Black elastic, black rubber and blue loop

This heel grounder is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is designed for operators that move from station to station, wear on both feet to ensure consistent grounding. It provides protection for operators on the move by offering a ground via proper flooring surface.

MicroTek
ISO 5-6 (Class 100- 1.000)

Part Number	Style	Packaging	Total/Case
VTHGV-21	Velcro	1ea/bag, 50 bags/pack, 5 packs/case	250 ea/case

ESD Static Dissipative

ESD Cleanroom Notebook PDF

- High-density polypropylene cover with an impregnated antistatic property and excellent chemical resistance
- Synthetic polymer impregnated paper
- Excellent ink absorption
- IPA resistant low sodium ink printed pages have low fiber and particle generation and ionic contamination

This notebook is commonly used for note taking, recording, data transferring in a cleanroom Class 1 -10 (ISO 3-4) critical environment where ESD safety is of paramount importance. The pages of the notebook are compatible with most inks in writing without smearing, also they are rotating with ability to lay flat which ensures flexibility and ease of use.

NanoTek
ISO 3-4 (Class 1-10)

Part Number	Size	Style	Packaging	Total/Case
VTNBCRE-8511	8.5” x 11”	100 pages, side spiral-bound	1 ea/bag, 20 bags/case	20 ea/case

ESD Static Dissipative

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Valutek's Wiper Naming Guide

Valutek's wiper nomenclature follows a very simple and easy understading system, each part number describes the wiper in three consistent charater-istics: **Substrate, Edge Treatment and Size** respectively.

For example: VTPNWPHS-99

VT	PN	W	PHS	99
Valutek	Polyester Knit	Wiper	Pressure Heat Seal	Size 9" x 9"

Wiper Naming Reference

VT	Valutek
W	Wiper
SNTR	Spunlace Nonwoven Cellulose-Polyester
PN	Polyester Knit
NN	Nylon Knit
TPC	Twill Patterned Cotton
MF	Microfiber
PNU	Polyester Nylon Ultra
PNWESD	Polyester Woven Electro Static Discharge
2	2-ply
LW	Light Weight
LT	Low Texture
LS	Laser Seal
US	Ultrasonic Seal
PHS	Pressure Heat Seal
44	4"x4"
99	9"x9"
1212	12"x12"
1818	18"x18"
2020	20"x20"

Pre-Wetted Naming Reference

VT	Valutek
W	Wiper
SNTR	Spunlace Nonwoven Cellulose-Polyester
PN	Polyester Knit
LS	Laser Seal
US	Ultrasonic Seal
PHS	Pressure Heat Seal
SI70	Saturated 70% IPA
SI90	Saturated90% IPA
R	Refill Bag
P	Pouch
F	Foil Pouch
44	4"x4"
99	9"x9"
1212	12"x12"

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Valutek's Glove Naming Guide

Valutek's glove nomenclature follows a very simple and easy understading system, each part number describes the glove in three consistent characteristics: **Substrate, Packaging, Cuff Length** respectively.

For example: VTGNCRB12

VT	G	N	CRB	12
Valutek	Glove	Nitrile	Cleanroom Bagged	Cuff Length 12"

Glove Naming Reference

VT	Valutek
G	Glove
N	Nitrile
L	Latex
V	PVC
PF	Powder Free
UT	Ultra thin
MT	Multi-Task
AB	Arizona Blue
B	Bagged
CRB	Cleanroom Bagged
IR	Irradiated

90	Cuff Length 9"
95	Cuff Length 9.5"
12	Cuff Length 12"
XS	Extra Small
SM	Small
MD	Medium
LG	Large
XL	Extra Large
2X	XX Large

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Valutek's Apparel Naming Guide

Valutek's apparel nomenclature follows a very simple and easy understading system, each part number describes the product in full detail with product type, substrate, style, weight, color and size.

For example: VTSHCVPLHWX-BL

VT	SHCV	PL	HW	X	BL
Valutek	Shoe Cover	Polyethylene	Heavy Weight	Extra Large	Blue

Apparel Naming Reference

VT	Valutek
Headwear	
BFC	Bouffant Cap
MHOOD	Microporous Hood
W	White
BL	Blue
HW	Heavy Weight
U	Universal Size
21	21"
24	24"
Facewear	
BCV	Beard Cover
MASK	Mask
VEIL	Veil
ELR	Ear Loop
HB	Head Band
HW	Heavy Weight
W	White
BL	Blue

Garment	
LBCT	Lab Coat
LBCTC	Coated Lab Coat
CVRL	Coverall
CVRLC	Coated Coverall
M	Microporous
Z	Zipper
HB	Hood and Boot
SM	Small
MD	Medium
LG	Large
XL	Extra Large
2X	XX Large
3X	XXX Large
4X	XXXX Large
Sleeve	
SLV	Sleeve
SLVC	Coated Sleeve
M	Microporous
18	18"
21	21"

Shoe Cover	
SHCV	Shoe Cover
BTCV	Boot Cover
PP	Polyproplyene
PL	Polyethylene
PPL	Polyethylene coated polyproplyene
AS	Anti-Skid
ESD	Electro Static Discharge
LF	Long Ribborn
V	PVC Sole
LW	Light Weight
HW	Heavy Weight
L	Large
X	Extra Large
W	White
BL	Blue

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Valutek's Glove Liner Naming Guide

VT	Valutek	1/2	Half Finger
GNLR	Glove Liner	1/1	Full Finger

Valutek's Adhesive Mat Naming Guide

VT	Valutek	3660	36"x60"
1836	18"x36"	3672	36"x72"
1845	18"x45"	4P	4 Mat per Case
2436	24"x36"	30L	30 Layers
2645	26"x45"	B	Blue
3636	36"x36"	W	White
3645	36"x45"	G	Grey

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Valutek's Cleaning Product Naming Guide

VT	Valutek	716	7"x16"
MOP	Mop Head	4516	4.5"x16"
PNW	Polyester Knit	TRLR	Tacky Roller
CR	Cleanroom	B	Blue
F	Flat	W	White

Valutek's Documentation Naming Guide

VT	Valutek	8511	8.5"x11"
CR	Cleanroom	1117	11"x17"
NB	Notebook	34	3"x4"
PS	Papers	B	Blue
NP	Note Pad	W	White
E	Electro Static Discharge	G	Green
23	23lbs	Y	Yellow
30	30lbs	O	Orange
35	3"x5"	P	Pink
5585	5.5"x8.5"		

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Valutek's Cleaning Product Naming Guide

VT	Valutek	HGV	Heel Grounder
C	Finger Cot	SM	Small
NR	Nitrile	MD	Medium
L	Latex	LG	Large
CON	Conductive	XL	Extra Large
PF	Powder Free	10	10"
WS	Wristband Set	21	21"

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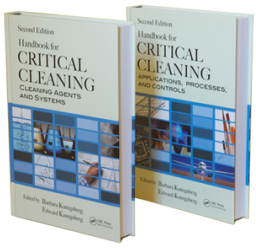

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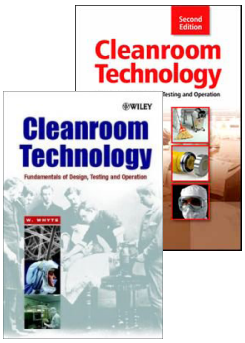

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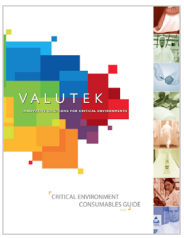
William Whyte



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premier marketplace for microelectronics manufacturing

MEMS Industry Group

the trade association advacing MEMS and Sensors across global market

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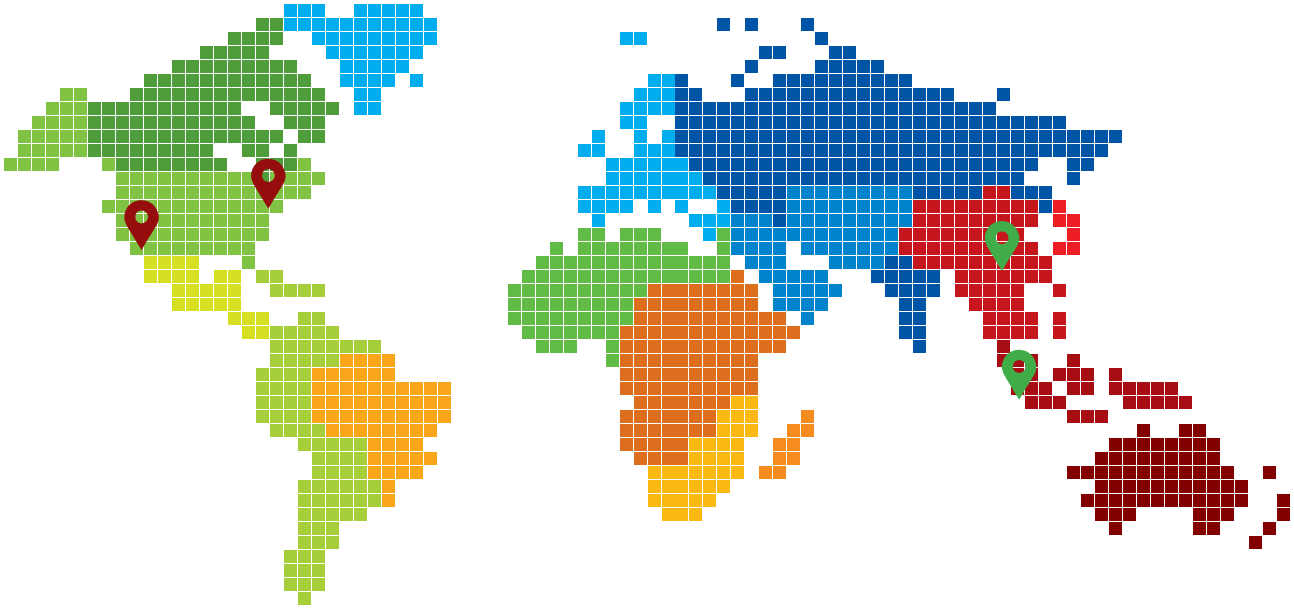

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