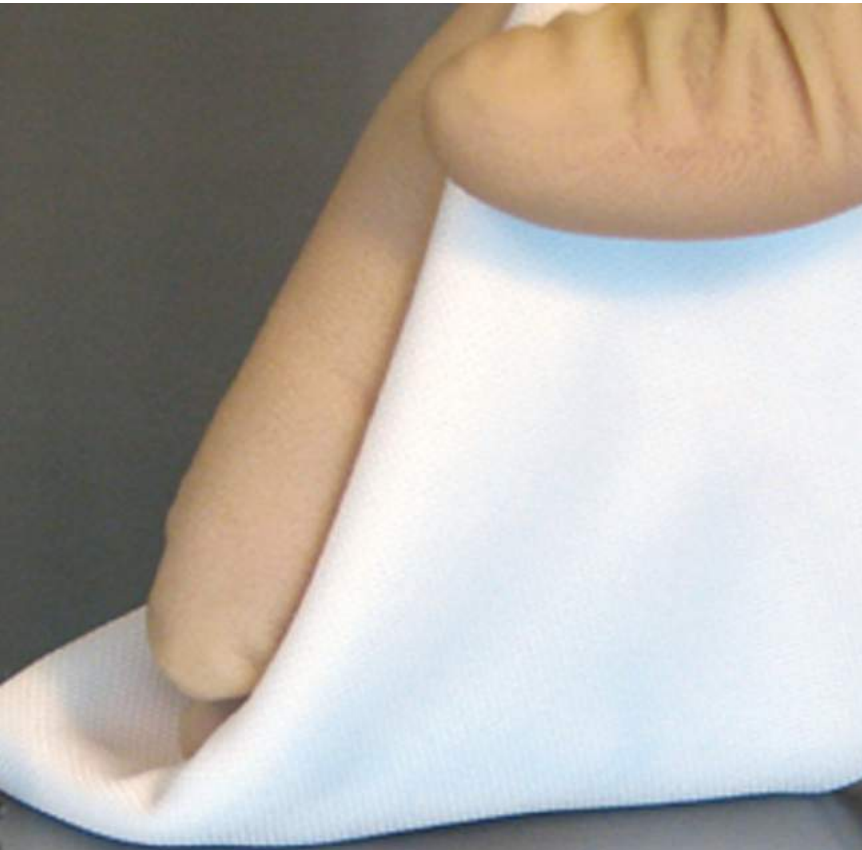




Wipers

「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.

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.

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.)

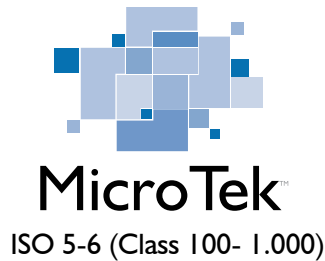
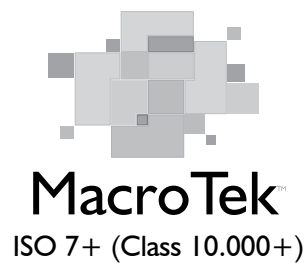
(Knitted Fabric: This is a material with interlaced loops. It is constituted of a single rolled up thread by curling on itself.)

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.



Spunlace Non-Woven Wiper

- 55% cellulose and 45% polyester blend
- Basis weight: 68 g/m²
- 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.



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

Non Woven

Rayon Wiper

- 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.



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

Non Woven

Twill Patterned Cotton Wiper

- 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.



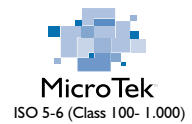
Part Number	Size	Packaging	Total/Case
VTTPC-99	9" x 9"	23 cm x 23 cm	150 ea/bag, 10 bags/case
VTTPC-1212	12" x 12"	30 cm x 30 cm	75 ea/bag, 10 bags/case

Cotton

Light-Weight Polyester Wiper

- 100% continuous filament, double-knit polyester fiber
- Cold knife cut edge
- Basis weight: 128 g/m²
- 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.



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

Standard Weight Polyester Wiper

- 100% continuous filament, double-knit polyester fiber
- Basis weight: 135 g/m²
- 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.



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

Laser-Sealed Polyester Wiper

- 100% continuous filament, double-knit polyester fiber
- Basis weight: 135 g/m²
- 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.



Polyester

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

Pressure-Heat Sealed Polyester Wiper

- 100% continuous-filament double-knit polyester fiber
- Basis Weight: 135 g/m²
- 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).



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

Polyester

Ultrasonic Sealed Polyester Wiper

- 100% continuous-filament double-knit polyester fiber
- Basis weight: 135 g/m²
- 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).



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

2-Ply Ultrasonic Sealed Polyester Wiper

- 100% continuous filament polyester knit
- Basis weight: 260 g/m²
- 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.

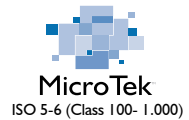


Part Number	Size		Packaging	Total/Case
VT2PNWUS-46	4" x 6"	10 cm x 15 cm	600 ea/bag, 6 bags/case	3600 ea/case
VT2PNWUS-99	9" x 9"	23 cm x 23 cm	100 ea/bag, 8 bags/case	800 ea/case
VT2PNWUS-1212	12" x 12"	30 cm x 30 cm	100 ea/bag, 8 bags/case	800 ea/case
VT2PNWUS-1818	18" x 18"	46 cm x 46 cm	20 ea/bag,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

ESD Polyester Wiper

- 100% continuous filament, double-knit polyester fiber
- Basis weight: 155 g/m²
- 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.



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

Polyester

Nylon Knit Wiper

- 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.



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

Nylon

Pressure-Heat Sealed Microfiber Wiper

- 70% polyester and 30% nylon knitted fiber
- Basis weight: 200 g/m²
- 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.



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

Microfiber

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.



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.



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

Pre-Wetted Spunlace Non-Woven Wiper Pail

- 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.



Part Number	Size		IPA/DI H ₂ O(%)	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 Spunlace Non-Woven Wiper Refill Pack

- 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.



Part Number	Size		IPA/DI H ₂ O(%)	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



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.



Part Number	Size	IPA/DI H ₂ O(%)	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.



Part Number	Size	IPA/DI H ₂ O(%)	Packaging	Total/Case
VTPNWSI05R-99	9" x 9"	23 cm x 23 cm	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWSI10R-99	9" x 9"	23 cm x 23 cm	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWSI50R-99	9" x 9"	23 cm x 23 cm	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWSI70R-99	9" x 9"	23 cm x 23 cm	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWSI90R-99	9" x 9"	23 cm x 23 cm	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWSI99R-99	9" x 9"	23 cm x 23 cm	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case
VTPNWSI100R-99	9" x 9"	23 cm x 23 cm	75 ea/bag, 2 bags/pack, 4 packs/case	600 ea/case

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.



Part Number	Size	IPA/DI H ₂ O(%)	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 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.



Part Number	Size	IPA/DI H ₂ O(%)	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



Pre-Wetted Pressure-Heat Sealed Polyester Wiper Pail

- 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.



Part Number	Size	IPA/DI H ₂ O(%)	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 Pressure-Heat Sealed Polyester Wiper Refill Pack

- 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.



Part Number	Size	IPA/DI H ₂ O(%)	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

Pre-Wetted Laser-Sealed Polyester Wiper in ESD Pouch

- 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.



Part Number	Size	IPA/DI H ₂ O(%)	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 Pressure Heat-Sealed Polyester Wiper in Clear Pouch

- 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.



Part Number	Size	IPA/DI H ₂ O(%)	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 Ultrasonic Sealed Polyester Wiper in Clear Pouch

- 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.



Part Number	Size	IPA/DI H ₂ O(%)	Packaging	Total/Case	
VTPNWUSI70P-99	9" x 9"	23 cm x 23 cm	70/30	30 ea/pouch, 20 pouches/case	600 ea/case