

temizoda
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WIPES



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Who We Are?

Our Aim

Who We Are?

Temizoda Marketi started its business life in 1995 with İNŞEL Yapı ve Teknik Donatım Sistemleri Ltd. Sti. Specializing in cleanroom consultancy, design, implementation, documentation, and training, İNŞEL aims to meet the needs of personnel working in cleanrooms, sterile areas and critically controlled areas when it aims to provide turnkey services in the projects it implements.

İNŞEL, which has started to supply consumables in Cleanrooms, sterile areas and critically controlled areas through its representatives since 2004, has separated this department from its body in time in order not to cause confusion for our valued customers and to provide better service led to creation of Temizoda Marketi Laboratuvar Ürünleri A.Ş.

Today, as Temizoda Marketi, we are always with you, our valued customers, from product selection to training with our professional and experienced staff, while following the technology closely to provide you with the best service in the most accurate way.

Our Aim

As Temizoda Marketi, we know our valued customers from the very beginning, from the installation of your hygienic area and Cleanrooms, and we know your needs. We are aware of how important it is to use the right material in the right place, and we are always at your side to supply you with the best quality and right products with the most appropriate solutions. We supply the highest technology products for you, and we are with you wherever you need, from training to after-sales user Support.

We know that choosing the right product is never the cheapest or the most expensive, and at this point, we help you with the most optimum benefit options...

Why Temizoda Marketi?

We know you; we know your needs and we are here to help you in the best way

As Temizoda Marketi, we try to get to know you first and learn about your business, processes, and needs and offer you the most suitable solutions.

As Temizoda Marketi, we are always happy and proud to assist you with our trained and experienced staff.

We are working to give you the best and highest quality service with our experienced staff dedicated to each department.

 <i>Customized Solution</i>	 <i>Professional Staff</i>	 <i>Correct Product</i>	 <i>Wide Range of Products</i>	 <i>Documentation</i>	 <i>After Sales Support</i>	 <i>One-Stop Service Solution</i>	 <i>Training</i>
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As Temizoda Marketi, we are always happy and proud to assist you with our trained and experienced staff.

We are working to give you the best and highest quality service with our experienced staff dedicated to each department.

Choosing the right product is one of the most important issues in cleanrooms and critically controlled areas.

As Temizoda Marketi, we choose the most accurate and best quality products for your business in line with your demands and goals and recommend them by making them economical.

The materials used in critically controlled areas are as special and important as the areas you work in.

We know that the most suitable product for you is not always the most expensive or the cheapest, but it should be the best quality. In order to offer you the optimum solution, as Temizoda Marketi, we offer you the products you need by diversifying them with alternatives from different brands.

As Temizoda Marketi, we know the importance of the documentation of all materials you use in critically controlled areas, and we provide all documents, certificates, analysis reports, and all necessary documentation for you, that are necessary, during the installation phase, application and validation.

Temizoda Marketi does not only approach you as a product supplier. At the same time, it stands behind the products it sells and does not hesitate to take all necessary actions to eliminate it when you have any problems.

It does not sell products without the full support of the companies it represents. When there is a problem about the products, Temizoda Marketi approaches the issue as if using it himself and ensures that it is resolved as soon as possible. Thus, you will get maximum efficiency from the product you have bought.

As Temizoda Marketi, we would like to help you with all the products you need with our wide product range. Even if the product you need does not appear in our catalog, we try to find the product you are looking for with our partners abroad. Thus, we provide you with one-stop service as sole responsibility.

Temizoda Marketi does not only supply you with products, but also provides training, which is one of the greatest necessities of our time. No matter how accurate the product is in critically controlled areas, incorrect or unconscious use can cause unwanted problems. Upon request, it provides the necessary training for the products you have purchased, either by itself or by the manufacturer.

Our Representatives

We are working with well-established companies that have proven their quality all over the world in auxiliary products used in clean rooms, sterile areas, laboratories and other critically controlled areas, to provide you with the best and right product.

- Cleanroom Consumables (Wipes, Gloves, Swabs, Mats,...)



Reinraum-Produkte GmbH

IAB Reinraum-Produkte GmbH

<http://www.iab-reinraumprodukte.de/>



Protect2Clean

www.protect2clean.com/



Pfennig Reinigungstechnik GmbH

www.pfennig-reinigungstechnik.com



ABEBA Spezialschuh-Ausstatter GmbH

www.abeba.com



Bimos - Interstuhl Büromöbel GmbH

www.bimos.com

- Cleanroom Mop Systems.

- Cleanroom Shoes

- Cleanroom Chairs



GERMANY



UK

- Cleanroom Wipes with highest quality possible

- Cleanroom consumables, disinfectants and Alcohols

- Clean & Sterile Ppe For Life Science



Berkshire Corporation

www.berkshire.com



MicronClean Ltd

www.micronclean.com



ISOfield

www.isofield.com

- Cleanroom Goggles



Univet

www.univetsafety.com/

- Cleanroom Sticky Mats, Papers, Shoes and Glove Liners



Purus International Inc.

www.purusint.com

- Cleanest Cleanroom Gloves



Riverstone Resources

www.riverstone.com.my

- Cleanroom Garments



Alsico High Tech

www.alsicohightech.com



ITALY



CANADA



MALAYSIA



BELGIUM

Our Representatives

bimos

UNIVET
OPTICAL TECHNOLOGIES

ISO field
Protecting Life Science

alsico
hightech

micronclean
QUALITY TODAY - INNOVATION TOMORROW

PURUS

Berkshire
REGISTERED CLEAN

PROTECT
2CLEAN

IAB

Reinraum-Produkte GmbH

PPS
PFENNIG PROFI SYSTEM

ABEBA®

➤ Cleanroom Garments

- Coveralls (Reusable/Disposable & Sterile/Non-Sterile)
- Coats (Reusable/Disposable & Sterile/Non-Sterile)
- Bonnets (Reusable/Disposable & Sterile/Non-Sterile)
- Hats (Reusable)
- Hoods (Reusable/Disposable & Sterile/Non-Sterile)
- Overshoes (Reusable/Disposable & Sterile/Non-Sterile)
- Over Boots (Reusable/Disposable & Sterile/Non-Sterile)
- Socks (Reusable/Disposable & Sterile/Non-Sterile)
- Masks (Reusable/Disposable & Sterile/Non-Sterile)
- Shoes

➤ Cleanroom Gloves

- Sterile Gloves (Latex & Nitrile)
- Non-Sterile Gloves (Latex, Nitrile, Polyethylene, Vinyl)
- Finger Gloves (Latex & Nitrile)
- Knitted Gloves

➤ Cleanroom Wipes

- Sterile Wipes
- Dry Wipes
- Pre-Saturated Wipes
- Sponge Wipes

➤ Swabs

➤ Cleanroom Mats / Floorings

- Sticky Mats
- Permanent Mats

➤ Cleanroom Stationary

- Notebooks (Rule, Grid, A4, A5)
- Papers (A3, A4, A5)
- Pens (Sterile & Non-Sterile, IPA Resist.)
- DCR Pads
- Tapes
- Rolls

➤ Cleanroom Cleaning Equipment

- Mops (Single use / Re-Usable)
- Mop Systems
- Mop Heads
- Vacuum Cleaners
- Isolators

➤ Cleanroom Disinfection Systems

- Disinfection Systems (Wet - Dry)
- Disinfectants
- Disinfection Service
- Alcohols

➤ Cleanroom Goggles

➤ Cleanroom Filters

- HVAC Filters
- Hepa Filters
- Water System Filters (RO System)
- 100% Endotoxin Removal Filters
- Cross Flow Filters

➤ Cleanroom Furniture

- Work Benches
- Racks
- Chairs
- Transport Trolleys

➤ Cleanroom Cabinets

- LF Units
- Bio-Safety Cabinets

➤ Air Shower

➤ Isolators

➤ Biological Indicators



Twillx® 1622

100% Cotton Woven Cleanroom Wiper

Key Attributes

- 100% woven cotton
- No binders or other additives
- Bias cut and tight weave construction

Benefits

- Excellent strength and durability
- Good absorbency
- High heat resistance
- Excellent resistance to the buildup of electrostatic discharge in 40-60% RH environments
- Works well with IPA and other solvents
- Autoclavable

Applications

- Ideal for high temperature equipment cleaning and diffusion furnaces
- Absorbent, low linting work surface material
- Cleaning, polishing and burnishing of metallic and nonmetallic magnetic media disk surfaces
- Cleaning of solvent spills
- Compatible with ISO Class 6 (Class 1000) cleanroom applications and above

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	175	TAPPI T-410
Caliper		µm	366	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	60	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.2 modified
Particles	≥0.5µm	x10 ³ /cm ²	17	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.1 modified
Sorbency	Capacity	mL/m ²	330	IEST-RP-CC004.4 Sec 9.1 / Sec 9.2 modified
	Efficiency	mL/g	1.9	
	Rate	seconds	10	
Non-Volatile Residue	DI Water	g/m ²	0.047	IEST-RP-CC004.4 Sec 8.1.2
	IPA	g/m ²	0.052	
Ions	Na ⁺	ppm	60	IEST-RP-CC004.4 Sec 8.2.2
	K ⁺	ppm	0.72	
	Ca ⁺⁺	ppm	2.6	
	Mg ⁺⁺	ppm	2.2	
	Cl ⁻	ppm	4.1	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES
Twillx® 1622	T1622.0909.8	9x9" (23x23cm)	300	8
Twillx® 1622	T1622.1212.4	12x12" (30x30cm)	150	4



Series 100

Properties

- 100% cotton
- Twill weave fabric
- Cut obliquely
- Double bag packaging

Advantages

- Extremely durable in wet as well as dry state
- Heat resistant
- Static neutral
- Good up to very good absorbency
- Extensively resistant to acids and solvents
- Biologically degradable

Applications

- All-purpose wipe for cleaning uncritical areas
- Wiping processes at the workplace, even on hot surfaces

TECHNICAL DATA

PROPERTIES		UNITS	VALUE	TEST METHOD
Material			100% cotton	
Edge processing			beveled, cold cut	
Mass per unit area		g/m ²	186	
Thickness		mils	18	
		mm	0.46	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	2.1	
(Ae) extrinsic		ml/m ²	356	
NVR	IPA based	g/m ²	0.209	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.119	
Particle residues	0.5 – ≤ 5.0 µm	106/m ²	284	IEST-RP-CC004.3
	> 5.0 – ≤ 100 µm	106/m ²	4.0	Section 6.1.3 Biaxial Shake Test
Fibre residues	> 100 µm	fibres/m ²	92,9	IEST-RP-CC004.3 Section 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	58	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	3.6	Section 7.2.2.1
Organic contaminants	Silicone oil		n. s.	by FTIR spectrometer
	Amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
4" x 4"	1,200 pieces	55100 0404
6" x 6"	600 pieces	55100 0606
9" x 9"	300 pieces	55100 0909
12" x 12"	150 pieces	55100 1212
17" x 17"	150 pieces	55100 1717



PureSorb® Foam Wiper

Laundered open-cell polyurethane foam wiper

Key Attributes

- Polyester-based polyurethane foam wiper
- 100 ppi open cell hydrophilic foam
- Reticulated in a non-chemical process
- Laser cut edge

Benefits

- Critically low fibers and particles
- Chemically compatible with IPA and other solvents
- High sorbency capacity
- Soft and non-abrasive
- Entraps and removes the particles
- Easy Open Notch
- Autoclavable

Environmental

- Light weight, high sorbency design reduces landfill waste impact when compared to more traditional heavier weight designs
- Complies with RoHS and REACH requirements

Application

- Screen cleaning in microelectronics
- Cleaning in pharmaceutical and medical device manufacturing
- Enhanced removal of disinfecting solutions
- Padded work surface
- Digital printing for cleaning solvents and inks
- Cellulose sponge replacement
- Excellent for applying cleaning solutions to large surfaces
- Wiping down glass vessels

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	116	TAPPI T-410
Caliper		µm	0.15	ASTM D-1777
Fibers	≥100µm	fibers/cm ²	0.034	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x10 ³ /cm ²	0.38	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	1200	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	10	
Non-Volatile Residue	DI Water	g/m ²	0.089	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m ²	1.1	
Ions	Na+	ppm	9.1	IEST-RP.CC004.3, Sec 7.2.2
	K+	ppm	0.022	
	Ca++	ppm	0.00057	
	Mg++	ppm	0.00042	
	Cl-	ppm	1.6	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	THICKNESS	SHTS / PK	PKS / ES	STYLE
PureSorb™	PS040520	4x5" (10x13cm)	0.15" (0.38cm)	50	20	Stacked
PureSorb™	PS06098	6x9" (15x23cm)	0.15" (0.38cm)	50	8	Stacked



WhiteGuard3 Polyester Wipes Sterile / Non-sterile

Benefits

- Ultra low linting wipe
- Laser sealed edges to prevent linting
- 100% knit continuous filament polyester
- Medium levels of absorbency

Usage

- Pharmaceutical cleanrooms
- Aerospace cleanrooms
- Medical device cleanrooms
- Semiconductor cleanrooms

Features

- Ultra low linting wipe
- Laser sealed edges to prevent linting
- 100% knit continuous filament polyester

TECHNICAL DATA

NON STERILE CODE	STERILE CODE	DESCRIPTION	SIZE	PACK QTY	BOX QTY	BOX SIZE	WEIGHT
WNTG04009		WhiteGuard 3 Polyester Non-Folded Wipes Non-Sterile	230x230mm (9"x9")	100	10 packs of 100	TBC	7.35kg
WNTG05009		WhiteGuard 3 Polyester Non-Folded Wipes Non-Sterile	230x230mm (9"x9")	150	10 packs of 150	TBC	11kg
WNTG05012		WhiteGuard 3 Polyester Non-Folded Wipes Non-Sterile	300x300mm (12"x12")	150	10 packs of 150	TBC	19kg
WNTG03012		WhiteGuard 3 Polyester Non-Folded Wipes Non-Sterile	300x300mm (12"x12")	50	10 packs of 50	TBC	TBC
	WSTG05009	WhiteGuard 3 Polyester Non-Folded Wipes Sterile	230x230mm (9"x9")	150	10 packs of 150	570x330x400	9.5kg
	WSTG03012	WhiteGuard 3 Polyester Non-Folded Wipes Sterile	300x300mm (12"x12")	50	12 packs of 50	383x383x383	9.8kg
	WSPW80009	WhiteGuard 3 Laundered Polyester Non-Folded Wipe Sterile	230x230mm (9"x9")	150	10 packs of 150	490x260x360	10.2kg
	MCDELN505	WhiteGuard 3 Laundered Polyester Non-Folded Wipe Sterile	300x300mm (12"x12")	50	12 packs of 50	383x383x383	8.8kg



WhiteGuard 5 Microdenier Wipes Non-sterile

Benefits

- Low linting wipe
- Laser sealed edges to prevent linting
- 100% knit continuous filament polyester
- Medium levels of absorbency
- Hard surface dry wipe
- Excellent wipe for lens and screen cleaning

Usage

- Semiconductor cleanrooms
- Pharmaceutical cleanrooms
- Aerospace cleanrooms
- Medical device cleanrooms

Features

- Low linting wipe
- Laser sealed edges to prevent linting
- 100% continuous filament nylon/polyester wipe

ORDER INFORMATION

NON STERILE CODE	STERILE CODE	DESCRIPTION	SIZE	PACK QTY	CASE QTY
WNMD04009		Microdenier Non-folded Wipes Non-sterile	230mm x 230mm (9"x9")	100 wipes per Pouch	10 x 100



WhiteGuard11 Laundered Dual Layer Polyester Wipes Sterile

Features

- Dual Layer 100% continuous filament polyester
- Laser sealed edges to prevent linting
- 100% continuous filament nylon/polyester wipe
- 2 years shelf life
- Tested to ASTM-D-629

Usage

- For use up to and including ISO Class 4 GMP grade A
- Semiconductor cleanrooms
- Pharmaceutical cleanrooms
- Aerospace cleanrooms
- Medical device cleanrooms

Benefits

- Low linting wipe
- Laser sealed edges to prevent linting
- Dual layer 100% continuous filament polyester
- Medium levels of absorbency
- Hard surface dry wipe
- Aqueous processing to ISO-14644 Class 4 EU GMP grade B

ORDER INFORMATION

PRODUCT CODE	DESCRIPTION	SIZE	PACK QTY	CASE QTY
MHPLEN50S	Dual Layer Polyester Non-folded Wipes Sterile	300mm x 300mm (12" x 12")	50	4 x 50



CapSure® – LP

Sealed Edge Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- Patented surface treatment captures and retains particulate contamination, Patent #8,431,497
- 100% continuous filament polyester knit
- Sealed edge for reduced fiber contamination
- Laundered and packaged in Berkshire's ISO Class 4 cleanroom

Benefits

- Minimal particles, fibers, ions and extractables.
- Airborne particle release 80% lower than competitive particle attraction wipers
- Captures 42 times more particles than competitive (untreated) wipers
- Retains 93% of particles captured
- Unique knit construction yields high abrasion resistance
- Immediate adsorption of liquids for efficient spill clean-up
- Autoclavable

Applications

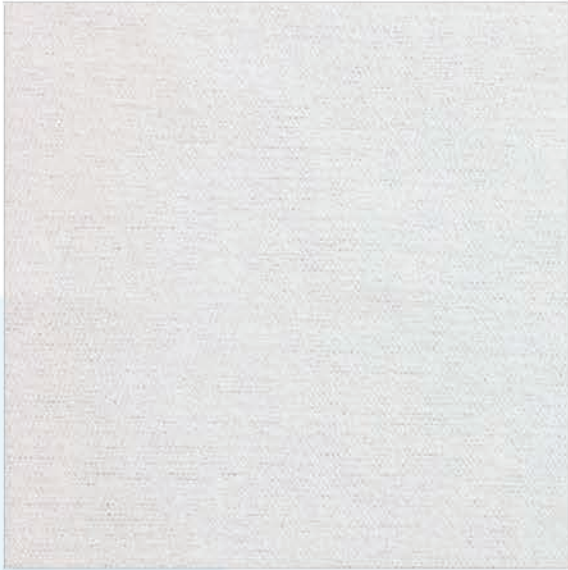
- Designed for use in ISO Class 3 and higher cleanroom environments
- Designed for the highest level of contamination control in critical processing applications
- Oxidation, Metallization, CVD or Photolithography processes
- Chamber cleaning and CMP processing
- Stencil and other print roll cleaning applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	137	TAPPI T-410
Caliper		µm	407	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.034	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x10 ³ /cm ²	0.28	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	375	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	2.7	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m ²	0.0026	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0035	
Ions	Na ⁺	ppm	0.051	IEST-RP-CC004.3, Sec 7.2.2
	K ⁺	ppm	0.024	
	Ca ⁺⁺	ppm	0.053	
	Mg ⁺⁺	ppm	0.027	
	Cl ⁻	ppm	0.14	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK
CapSure®-LP	CPSLP.0708B.8	7x8" (18x20cm)	300
CapSure®-LP	CPSLP.0909.8	9x9" (23x23cm)	150
CapSure®-LP	CPSLP.0909B.8	9x9" (23x23cm)	29.5
CapSure®-LP	CPSLP.1212.14	12x12" (30x30cm)	75
CapSure®-LP	CPSLP.1212B.14	12x12" (30x30cm)	75



CapSure® – VP
Sealed Edge Cleanroom Laundered 100% Polyester Knit wiper

Key Attributes

- Patented surface treatment captures and retains particulate contamination, Patent #8,431,497
- 100% continuous filament polyester knit
- Sealed edge for reduced fiber contamination
- Laundered and packaged in Berkshire’s ISO Class 4 cleanroom

Benefits

- Minimal particles, fibers, ions and extractables.
- Airborne particle release 80% lower than competitive particle attraction wipers
- Captures 42 times more particles than competitive (untreated) wipers
- Retains 93% of particles captured
- Chemically compatible with IPA, Acetone and other solvents
- Immediate adsorption of liquids for efficient spill clean-up

Environmental

- Light weight, high absorbency design reduces landfill waste impact when compared to more traditional heavier weight designs

Applications

- Designed for use in ISO Class 3 and higher cleanroom environments
- Designed for the highest level of contamination control in critical processing applications
- Oxidation, Metallization, CVD or Photolithography processes
- Chamber cleaning and CMP processing
- Stencil and other print roll cleaning applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	123	TAPPI T-410
Caliper		µm	368	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.033	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	0.19	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	325	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	2.6	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m2	0.0067	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m2	0.0083	
Ions	Na+	ppm	0.41	IEST-RP.CC004.3, Sec 7.2.2
	K+	ppm	0.070	
	Ca++	ppm	0.031	
	Mg++	ppm	0.0069	
	Cl-	ppm	ND	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
CapSure®-VP	CPSVP.0909.8	9x9" (23x23cm)	150	8	Stacked
CapSure®-VP	CPSVP.0909B.8	9x9" (23x23cm)	150	8	Value Pack
CapSure®-VP	CPSVP.1212.14	12x12" (30x30cm)	75	14	Stacked
CapSure®-VP	CPSVP.1212B.14	12x12" (30x30cm)	75	14	Value Pack



Choice® 900

Sealed Edge Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- 100% continuous filament knit polyester
- Ultrasonically sealed edge for reduced fiber contamination
- Laundered and packaged in ISO Class 4 (Class 10) cleanroom
- Silicone free

Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistant
- Excellent absorbency
- Chemically compatible with IPA, Acetone and other solvents

Environmental

- Complies with RoHS

Applications

- Designed for use in ISO Class 3 and higher environments
- Breakdown cleans in fab and suite construction
- Oxidation, Metallization or CVD Deposition areas
- Chamber cleaning and CMP processing
- Stencil and other print roll cleaning applications
- Cleaning of medical device products
- Applying and removing cleaning and disinfecting solutions
- Steam autoclavable for aseptic environments

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	140	TAPPI T-410
Caliper		µm	564	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.091	IEST-RP-CC004.3, Sec 6.1.4 / Sec 6.2.2
Particles	≥0.5µm	x10 ³ /cm ²	0.99	IEST-RP-CC004.3, Sec 6.1.4 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	420	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.0	
	Rate	seconds	2	
Non-Volatile Residue	DI Water	g/m ²	0.0058	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0087	
Ions	Na ⁺	ppm	0.012	IEST-RP-CC004.3, Sec 7.2.2
	K ⁺	ppm	0.0055	
	Ca ⁺⁺	ppm	0.022	
	Mg ⁺⁺	ppm	0.00022	
	Cl ⁻	ppm	0.017	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES
Choice® 900	CH909.10	9x9"(23x23cm)	150	10



Choice® SuperSorb
Sealed Edge Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- 100% continuous filament knit polyester
- Two-ply pinsonic construction with unique diamond pattern
- Ultrasonically sealed edge for reduced fiber contamination
- Laundered and packaged in ISO Class 4 (Class 10) cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistance
- Chemically compatible with IPA, Acetone and other solvents
- Pinsonic design adds surface texture that aids in stubborn residue removal

Environmental

- Complies with RoHS requirement

Applications

- Designed for use in ISO Class 3 and higher environments
- Designed for the highest level of contamination control in critical processing applications
- Excellent for spill control in processing areas where sorbency is of the greatest importance
- Stencil and other print roll cleaning applications
- Cleaning of medical device products
- Applying and removing cleaning and disinfecting solutions
- Steam autoclavable for aseptic environments

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	248	TAPPI T-410
Caliper		µm	694	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.13	IEST-RP-CC004.3, Sec 6.1.4 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	2.0	IEST-RP-CC004.3, Sec 6.1.4 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	860	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.5	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m2	0.0040	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m2	0.015	
Ions	Na+	ppm	0.032	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.0065	
	Ca++	ppm	0.050	
	Mg++	ppm	0.0020	
	Cl-	ppm	0.10	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Choice® SuperSorb	CHSS0414	4x4" (10x10cm)	300	14	Stacked
Choice® SuperSorb	CHSS09.14	9x9" (23x23cm)	75	14	Stacked
Choice® SuperSorb	CHSS0824B12	8 x 24" (20x61cm)	25	12	Bulk
Choice® SuperSorb	CHSS09B.14	9x9" (23x23cm)	75	14	Bulk
Choice® SuperSorb	CHSS12.12	12x12" (30x30cm)	75	12	Stacked



MicroSeal SuperSorb®

Sealed Edge Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- 100% continuous filament polyester knit
- Two-ply pinsonic construction with unique knit structure and pattern
- Ultrasonically sealed edge for reduced fibre contamination
- Laundered and packaged in Berkshire's ISO Class 4 cleanroom

Benefits

- Critically low particles, fibres, ions and extractables
- High abrasion resistance
- Chemically compatible with IPA, Acetone and other solvents
- Highest sorbency level available in a polyester knit reduces wiper usage
- Pinsonic design adds surface texture that aids in stubborn residue removal
- Low cost in use compared to other two-ply polyester knits

Applications

- Designed for use in ISO Class 3 and higher cleanroom environments
- Designed for the highest level of contamination control in critical processing applications
- Excellent for spill control and processing areas where sorbency is of the greatest importance
- Chamber cleaning and CMP processing
- Stencil and other print roll cleaning applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products
- Removing cleaning and disinfecting solutions
- Meets AMS 3819D requirements, Class 2, Grade A, Form 1

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	265	TAPPI T-410
Caliper		µm	777	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.14	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.2 modified
Particles	≥0.5µm	x103/cm ²	0.51	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.1 modified
Sorbency	Capacity	mL/m ²	1010	IEST-RP-CC004.4 Sec 9.1 / Sec 9.2 modified
	Efficiency	mL/g	3.8	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m ²	0.010	IEST-RP-CC004.4 Sec 8.1.2
	IPA	g/m ²	0.014	
Ions	Na+	ppm	0.30	IEST-RP-CC004.4 Sec 8.2.2
	K+	ppm	0.023	
	Ca++	ppm	0.028	
	Mg++	ppm	0.051	
	Cl-	ppm	0.13	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
MicroSeal SuperSorb®	MSSS.0909..8	9x9" (23x23cm)	100	8	Stacked
MicroSeal SuperSorb®	MSSS.1212.12	12x12" (30x30cm)	50	12	Stacked



MicroSeal® – VP
Sealed Edge Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- 100% continuous filament polyester knit
- Ultrasonically sealed edge for reduced fiber contamination
- Laundered and packaged in Berkshire’s ISO Class 4 cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistance
- Chemically compatible with IPA, Acetone and other solvents
- High absorbency
- Light weight, high absorbency material design reduces actual cost in use compared to heavier weight products

Environmental

- Light weight, high absorbency design reduces landfill waste impact when compared to more traditional heavier weight designs

Applications

- Designed for use in ISO Class 3 and higher cleanroom environments
- Designed for the highest level of contamination control in critical processing applications
- Oxidation, Metallization, CVD or Photolithography processes
- Chamber cleaning and CMP processing
- Stencil and other print roll cleaning applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	130	TAPPI T-410
Caliper		µm	442	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.12	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	0.31	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	448	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.8	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m2	0.0019	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m2	0.0054	
Ions	Na+	ppm	0.17	IEST-RP.CC004.3, Sec 7.2.2
	K+	ppm	0.024	
	Ca++	ppm	0.053	
	Mg++	ppm	0.011	
	Cl-	ppm	0.032	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
MicroSeal®-VP	MSVP.0909.8	9x9" (23x23cm)	150	8	Stacked
MicroSeal®-VP	MSVP.0909B.8	9x9" (23x23cm)	150	8	Value Pack
MicroSeal®-VP	MSVP.1212.14	12x12" (30x30cm)	75	14	Stacked
MicroSeal®-VP	MSVP.1212B.14	12x12" (30x30cm)	75	14	Value Pack



MicroSeal® 1200

Sealed Edge Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- 100% continuous filament polyester knit
- Ultrasonically sealed edge for reduced fiber contamination
- Laundered and packaged in Berkshire's ISO Class 4 cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistance
- Chemically compatible with IPA, Acetone and other solvents
- High absorbency
- Weight and caliper provide an excellent hand for cleaning rough surfaces

Environmental

- Complies with RoHS

Applications

- Designed for use in ISO Class 3 and higher cleanroom environments
- Designed for the highest level of contamination control in critical processing applications
- Oxidation, Metallization, CVD or Photolithography processes
- Chamber cleaning and CMP processing
- Stencil and other print roll cleaning applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	154	TAPPI T-410
Caliper		µm	507	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.036	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm ²	0.40	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	512	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.3	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m ²	0.0045	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0082	
Ions	Na+	ppm	0.17	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.010	
	Ca++	ppm	0.046	
	Mg++	ppm	0.011	
	Cl-	ppm	0.30	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
MicroSeal® 1200	MS1200.0404B.10	4x4" (10x10cm)	600	10	Value Pack
MicroSeal® 1200	MS1200.0909.8	9x9" (23x23cm)	100	8	Stacked
MicroSeal® 1200	MS1200.1212.6	12x12" (30x30cm)	100	6	Stacked



MicroSeal® 3000

Key Attributes

- 100% continuous filament polyester knit
- Two-ply pinsonic tubular construction
- Laundered and packaged in Berkshire’s ISO Class 4 cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- Chemically compatible with IPA, Acetone and other solvents
- High sorbency level
- Pinsonic design adds surface texture that aids in stubborn residue removal
- Sealed edge process combined with tubular design offers excellent abrasion resistance for the toughest cleaning applications

Environmental

- Complies with RoHS

Applications

- Designed for use in ISO Class 3 and higher cleanroom environments
- Designed for the highest level of contamination control in critical processing applications
- Excellent for spill control and processing areas where sorbency is of importance
- Chamber cleaning and CMP processing
- Designed for removal of tough residues in critical applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products
- Removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	144	TAPPI T-410
Caliper		µm	420	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.11	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	0.83	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	462	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.2	
	Rate	seconds	3	
Non-Volatile Residue	DI Water	g/m2	0.0043	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m2	0.010	
Ions	Na+	ppm	0.010	IEST-RP.CC004.3, Sec 7.2.2
	K+	ppm	0.028	
	Ca++	ppm	0.015	
	Mg++	ppm	0.0011	
	Cl-	ppm	0.044	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
MicroSeal® 3000	MS3000.0909.8	9x9" (23x23cm)	100	8	Stacked



MicroSeal® NW Antistatic
100% Polyester Cleanroom Wiper

Key Attributes

- 100% knitted polyester which attracts and dissipates the charge
- Sealed edge with antistatic fiber which dissipates static charges
- Laundered and packaged in Berkshire's ISO Class 4 cleanroom
- Lot traceability
- Double bagged

Benefits

- Chemically compatible with common cleaning and disinfecting solutions
- High abrasion resistance
- Ultrasonically sealed edge for extremely low fiber release

Applications

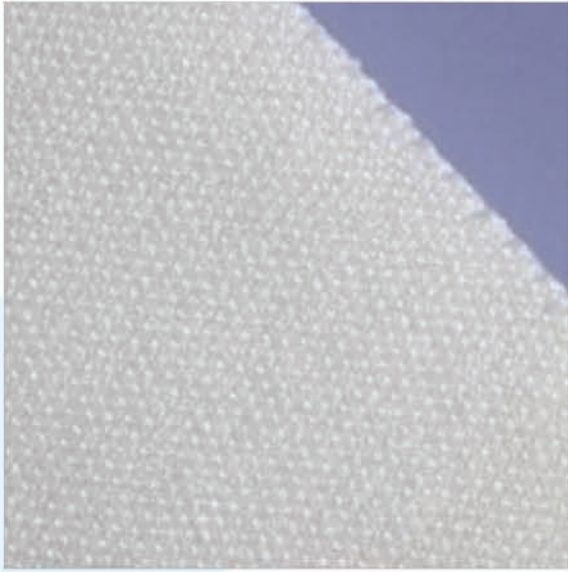
- Designed for use in ISO Class 3 and higher cleanroom environments
- Ideal for use in critical application where contamination and static control are a concern
- Excellent solution for semiconductor and electronic manufacturers

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	145	TAPPI T-410
Caliper		µm	593	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.094	IEST-RP-CC004.3, Sec 6.1.4 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	2.6	IEST-RP-CC004.3, Sec 6.1.4 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	454	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.1	
	Rate	seconds	2	
Non-Volatile Residue	DI Water	g/m2	0.0028	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m2	0.0066	
Ions	Na+	ppm	0.0072	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.0019	
	Ca++	ppm	0.018	
	Mg++	ppm	0.00015	
	Cl-	ppm	0.014	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Polx® 1200	P1200.0909.8	9x9" (23x23cm)	150	8	Stacked
Polx® 1200	P1200.1212.14	12x12" (30x30cm)	75	14	Stacked



Polix® 1200
Cleanroom 100% Polyester Knit wiper

Key Attributes

- 100% continuous filament polyester knit
- Knife cut edge
- No binders or surfactants

Benefits

- Low contamination compared to non-wovens
- High abrasion resistance
- Chemically compatible with IPA, Acetone and other solvents
- Light weight with good sorbency
- Soft hand and edge for sensitive surfaces

Environmental

- Complies with RoHS and REACH requirements

Applications

- Designed for use in ISO Class 5 and higher cleanroom environments
- Designed for applications requiring better cleanliness than a nonwoven but not the high level of cleanliness provided by a laundered knit
- Integrated circuit fabrication areas
- CD and DVD manufacturing operations
- Gross cleans in fab and suite construction
- Equipment wrap and wipe downs
- Steam autoclavable for aseptic applications
- Applying and removing cleaning and disinfecting solutions in less critical area

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	107	TAPPI T-410
Caliper		µm	388	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	73	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm ²	39	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	395	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.7	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m ²	0.015	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m ²	0.016	
Ions	Na+	ppm	4.3	IEST-RP.CC004.3, Sec 7.2.2
	K+	ppm	0.42	
	Ca++	ppm	1.4	
	Mg++	ppm	0.56	
	Cl-	ppm	2.2	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Polix® 1200	P1200.0909.8	9x9" (23x23cm)	150	8	Stacked
Polix® 1200	P1200.1212.14	12x12" (30x30cm)	75	14	Stacked



Super Polix® LWSE

Sealed Edge Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- 100% continuous filament polyester knit
- Ultrasonically sealed edge for reduced fiber contamination
- Laundered and packaged in an ISO Class 4 (Class 10) cleanroom
- Economical bulk packaging available

Benefits

- Low particles, fibers, ions and non-volatile residue
- High abrasion resistance
- Chemically compatible with IPS, acetone and other solvents
- High sorbency
- Combination of weight and caliper provide an excellent hand for cleaning rough surfaces

Environmental

- Light weight, high absorbency design reduces landfill waste impact when compared to more traditional heavier weight designs

Applications

- Designed for use in ISO Class 3 and higher cleanroom environments
- Oxidation, Metallization or CVD processing
- Breakdown cleans in fab and suite construction
- Chamber cleaning and CMP processing
- Stencil and other print roll cleaning applications
- Cleaning of medical device products
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	122	TAPPI T-410
Caliper		µm	449	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.089	IEST-RP.CC004.3, Sec 6.1.4 / Sec 6.2.2
Particles	≥0.5µm	x103/cm ²	1.3	IEST-RP.CC004.3, Sec 6.1.4 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	339	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	2.8	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m ²	0.0053	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0071	
Ions	Na+	ppm	0.026	IEST-RP.CC004.3, Sec 7.2.2
	K+	ppm	0.0058	
	Ca++	ppm	0.038	
	Mg++	ppm	0.00032	
	Cl-	ppm	0.021	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Super Polix® LWSE	SPLWSE.0909B.14	9x9" (23x23cm)	150	14	Value Pack



Super Polx® 1200
Cleanroom Laundered 100% Polyester Knit wiper

Key Attributes

- 100% continuous filament polyester knit
- Knife cut edge
- Laundered and packaged in Berkshire's ISO Class 4 cleanroom

Benefits

- Low particles, fibers, ions and extractables
- High abrasion resistance
- Chemically compatible with IPA, Acetone and other solvents
- High sorbency
- Soft hand and edge for sensitive surfaces

Environmental

- Complies with RoHS

Applications

- Designed for use in ISO Class 4 and higher cleanroom environments
- Designed for a high level of contamination control in critical processing applications
- Integrated circuit fabrication areas
- CD and DVD manufacturing operations
- Breakdown cleans in fab and suite construction
- Equipment wrap and wipe downs
- Stencil and other print roll cleaning applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	151	TAPPI T-410
Caliper		µm	521	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.35	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x10 ³ /cm ²	0.22	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	509	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.4	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m ²	0.0045	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0092	
Ions	Na+	ppm	0.17	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.010	
	Ca++	ppm	0.053	
	Mg++	ppm	0.011	
	Cl-	ppm	0.39	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Super Polx® 1200	S1200.0404B.10	4x4" (10x10cm)	600	10	Value Pack
Super Polx® 1200	S1200.0606.9	6x6" (15x15cm)	300	9	Stacked
Super Polx® 1200	S1200.0909.8	9x9" (23x23cm)	150	8	Stacked
Super Polx® 1200	S1200.0909B.8	9x9" (23x23cm)	150	8	Value Pack
Super Polx® 1200	S1200.1212.14	12x12" (30x30cm)	75	14	Stacked
Super Polx® 1200	S1200.1212B.14	12x12" (30x30cm)	75	14	Value Pack



Super Polx® 1200A
Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- 100% continuous filament double knitted polyester
- Knife cut edge
- Laundered and packed in an ISO Class 4 cleanroom
- Sterilisable by autoclave, gamma or beta

Benefits

- Low particles, fibers, ion and non-volatile residue
- High abrasion resistance
- Chemically compatible with IPA, acetone and other solvents
- High sorbency
- Soft hand and edge for sensitive surfaces

Environmental

- Complies with RoHS

Applications

- Designed for use in ISO Class 4 and higher cleanroom environments
- Designed for high level of contamination control in critical processing applications
- Integrated circuit fabrication areas
- CD and DVD manufacturing operations
- Breakdown cleans in fab and suite construction
- Equipment wrap and wipe down
- Stencil and other print roll cleaning applications
- Cleaning of medical device products
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	137	TAPPI T-410
Caliper		µm	558	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.33	IEST-RP-CC004.3, Sec 6.1.4 / Sec 6.2.2
Particles	≥0.5µm	x103/cm ²	1.4	IEST-RP-CC004.3, Sec 6.1.4 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	441	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.2	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m ²	0.0011	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0080	
Ions	Na+	ppm	0.056	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.0011	
	Ca++	ppm	0.045	
	Mg++	ppm	0.000010	
	Cl-	ppm	0.045	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Super Polx® 1200A	S1200A.0909.10	9x9" (23x23cm)	150	10	Stacked
Super Polx® 1200A	S1200A.0909B.10	9x9" (23x23cm)	150 Bulk	10	Value Pack
Super Polx® 1200A	S1200A.1212.10	12x12" (30x30cm)	150	10	Stacked



Super Polx® SW
Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- 100% continuous filament double knitted polyester
- Knife cut edge
- Laundered and packed in an ISO Class 4 (Class 10) cleanroom
- Sterilisable by autoclave, gamma or beta
- Economical bulk packaging available
- Lot tracing on each pack

Benefits

- Engineered low ion and chemical resistant, pure
- Low in particles and fibers
- Strong, tear and abrasion resistant
- Good absorbency
- Chemically compatible with IPA, acetone and other solvents

Applications

- Designed for use in ISO Class 4 and higher cleanroom environments
- Breakdown cleans in fab and suite construction
- Equipment wrap and wipe downs

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	130	TAPPI T-410
Caliper		µm	516	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.20	IEST-RP.CC004.3, Sec 6.1.4 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	1.3	IEST-RP.CC004.3, Sec 6.1.4 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	392	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.0	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m2	0.0044	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m2	0.0089	
Ions	Na+	ppm	0.014	IEST-RP.CC004.3, Sec 7.2.2
	K+	ppm	0.0052	
	Ca++	ppm	0.025	
	Mg++	ppm	0.00037	
	Cl-	ppm	0.014	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Super Polx® SW	SPSW.0909.10	9x9" (23x23cm)	150	10	Stacked
Super Polx® SW	SPSW.0909B.10	9x9" (23x23cm)	150 Bulk	10	Value Pack
Super Polx® SW	SPSW.1212.10	12x12" (30x30cm)	150	10	Stacked



Super Polx® SWSE
Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- 100% continuous filament double knitted polyester
- Ultrasonically sealed edge
- Laundered and packaged in an ISO Class 4 (Class 10) cleanroom
- Lot tracing on each pack
- Economical

Benefits

- Strong, tear and abrasion resistant
- Very good absorbency
- Low particles and fibres
- Soft hand and edge for sensitive surfaces

Applications

- Designed for use in ISO Class 3 and higher cleanroom environments and USP <797> applications
- Equipment wrap and wipe down
- EC Regulation 1935 (2004) - Food contact compliant
- Applying and removing disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	132	TAPPI T-410
Caliper		µm	517	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.081	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.2
Particles	≥0.5µm	x103/cm2	1.3	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.1
Sorbency	Capacity	mL/m ²	396	IEST-RP-CC004.4 Sec 9.1 / Sec 9.2 modified
	Efficiency	mL/g	3.0	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m2	0.0054	EST-RP-CC004.4 Sec 8.1.2
	IPA	g/m2	0.0087	
Ions	Na+	ppm	0.0077	IEST-RP-CC004.4 Sec 8.2.2
	K+	ppm	0.0029	
	Ca++	ppm	0.018	
	Mg++	ppm	0.00022	
	Cl-	ppm	0.015	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Super Polx® SWSE	SPSWSE.0404B.10	4x4" (10x10cm)	600 Bulk	10	Value Pack
Super Polx® SWSE	SPSWSE.0909.10	9x9" (23x23cm)	150	10	Stacked
Super Polx® SWSE	SPSWSE.0909B.10	9x9" (23x23cm)	150 Bulk	10	Value Pack
Super Polx® SWSE	SPSWSE.1212.10.	12x12" (30x30cm)	150	10	Stacked



UltraSeal® 3000
Sealed Edge Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- 100% continuous filament polyester knit
- Two-ply pinsonic tubular construction
- Patented sealed edge process for reduced fiber contamination; Patent #5,229,181
- Laundered and packaged in Berkshire’s ISO Class 4 cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- Chemically compatible with IPA and other solvents
- High sorbency level
- Pinsonic design adds surface texture that aids in stubborn residue removal
- Patented sealed edge process combined with tubular design offers excellent abrasion resistance for the toughest cleaning applications

Environmental

- Complies with RoHS

Applications

- Designed for use in ISO Class 3 and higher cleanroom environments
- Designed for the highest level of contamination control in critical processing applications
- Excellent for spill control and processing areas where sorbency is of importance
- Chamber cleaning and CMP processing
- Designed for removal of tough residues in critical applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products
- Removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	189	TAPPI T-410
Caliper		µm	552	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.0075	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	0.55	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	522	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modi-
	Efficiency	mL/g	2.8	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m2	0.0047	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m2	0.025	
Ions	Na+	ppm	0.0049	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.041	
	Ca++	ppm	0.0086	
	Mg++	ppm	0.0015	
	Cl-	ppm	0.023	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
UltraSeal® 3000	US3000.0909.8	9x9" (23x23cm)	100	8	Stacked
UltraSeal® 3000	US3000.1212.6	12x12" (30x30cm)	100	6	Stacked
UltraSeal® 3000	US3000.1212B.6	12x12" (30x30cm)	100	6	Value Pack



ValuSeal® – LP

Sealed Edge Cleanroom Laundered 100% Polyester Knit wiper

Key Attributes

- 100% continuous filament polyester knit
- Ultrasonically sealed edge for reduced fiber contamination
- Laundered and packaged in Berkshire's ISO Class 4 cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistance
- Chemically compatible with IPA, Acetone and other solvents
- High absorbency
- Low endotoxin levels
- Combination of weight and caliper provide an excellent hand for cleaning rough surfaces

Environmental

- Complies with RoHS

Applications

- Designed for use in ISO Class 3 and higher cleanroom environments
- Designed for the highest level of contamination control in critical processing applications
- Oxidation, Metallization, CVD or Photolithography processes
- Chamber cleaning and CMP processing
- Stencil and other print roll cleaning applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	145	TAPPI T-410
Caliper		µm	411	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.034	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm ²	0.47	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	435	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.0	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m ²	0.0074	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m ²	0.010	
Ions	Na+	ppm	0.39	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.041	
	Ca++	ppm	0.033	
	Mg++	ppm	0.0058	
	Cl-	ppm	0.14	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
ValuSeal®-LP	VSLP.0909.8	9x9" (23x23cm)	150	8	Stacked
ValuSeal®-LP	VSLP.0909B.8	9x9" (23x23cm)	150	8	Value Pack
ValuSeal®-LP	VSLP.1212.14	12x12" (30x30cm)	75	14	Stacked
ValuSeal®-LP	VSLP.1212B.14	12x12" (30x30cm)	75	14	Value Pack



ValuSeal® 1500

Sealed Edge Cleanroom Laundered 100% Polyester Knit wiper

Key Attributes

- 100% continuous filament polyester knit
- Laser sealed edge for reduced fiber contamination
- Laundered and packaged in Berkshire's ISO Class 4 cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- Chemically compatible with IPA, Acetone and other solvents
- High absorbency
- Light weight, high absorbency material design reduces actual cost in use compared to heavier weight products

Environmental

- Light weight, high absorbency design reduces landfill waste impact when compared to more traditional heavier weight designs
- Complies with RoHS

Applications

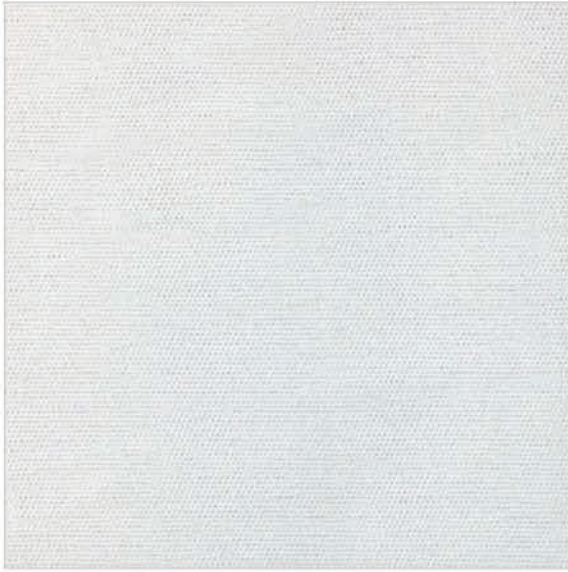
- Designed for use in ISO Class 3 and higher cleanroom environments
- Designed for the highest level of contamination control in critical processing applications
- Chamber cleaning and CMP processing
- Stencil and other print roll cleaning applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products
- Analytical analysis testing between batch runs in parenteral drug processing
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	130	TAPPI T-410
Caliper		µm	473	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.037	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	0.74	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	538	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	4.1	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m2	0.0031	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m2	0.0065	
Ions	Na+	ppm	0.069	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.016	
	Ca++	ppm	0.041	
	Mg++	ppm	0.0088	
	Cl-	ppm	0.21	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
ValuSeal® 1500	VS1500.0909.8	9x9" (23x23cm)	150	8	Stacked
ValuSeal® 1500	VS1500.0909B.8	9x9" (23x23cm)	150	8	Value Pack
ValuSeal® 1500	VS1500.1212.14	12x12" (30x30cm)	75	14	Stacked



ValuSeal® IonX®
Sealed Edge Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- 100% continuous filament polyester knit
- Laser sealed edge for reduced fiber contamination
- Laundered and packaged in an ISO Class 4 cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- Chemically compatible with IPA, Acetone and other solvents
- Light weight material design reduces actual cost in use compared to heavier weight products
- Steam autoclavable

Applications

- Designed for use in ISO Class 3 and higher cleanroom environments
- Designed for the highest level of contamination control in critical processing applications
- Chamber cleaning and CMP processing
- Stencil and other print roll cleaning applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	134	TAPPI T410
Caliper		µm	506	ASTM D1777
Fibers	≥100µm	fibers/cm2	0.017	IEST-RP-CC004.3, Sec 6.1.4 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	0.57	IEST-RP-CC004.3, Sec 6.1.4 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	371	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	2.8	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m2	0.0032	IEST-RP-C004.3, Sec 7.1.2
	IPA	g/m2	0.011	
Ions	Na+	ppm	0.0059	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.00089	
	Ca++	ppm	0.0070	
	Mg++	ppm	0.00013	
	Cl-	ppm	0.011	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
ValuSeal® IonX®	VSI.0909.14	9x9" (23x23cm)	150	14	Stacked
ValuSeal® IonX®	VSI.0909B.14	9x9" (23x23cm)	150 (bulk)	14	Value Pack
ValuSeal® IonX®	VSI.0708B.14	7x8" (18x20cm)	150 (bulk)	14	Value Pack



ValuSeal – HA®
Sealed Edge Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- 100% continuous filament polyester knit
- Ultrasonically sealed edge for reduced fiber contamination
- Laundered and packaged in Berkshire's ISO Class 4 cleanroom

Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistance
- Chemically compatible with IPA, Acetone and other solvents
- High absorbency
- Light weight, high absorbency material design reduces actual cost in use compared to heavier weight products

Environmental

- Light weight, high absorbency design reduces landfill waste impact when compared to more traditional heavier weight designs
- Complies with RoHS

Applications

- Designed for use in ISO Class 3 and higher cleanroom environments
- Designed for the highest level of contamination control in critical processing applications
- Oxidation, Metallization, CVD or Photolithography processes
- Chamber cleaning and CMP processing
- Stencil and other print roll cleaning applications
- Steam autoclavable for aseptic applications
- Cleaning of medical device products
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	135	TAPPI T-410
Caliper		µm	418	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.080	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	0.31	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	530	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.9	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m2	0.0048	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m2	0.0050	
Ions	Na+	ppm	0.29	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.033	
	Ca++	ppm	0.030	
	Mg++	ppm	0.0059	
	Cl-	ppm	0.14	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
ValuSeal-HA®	VSHA.0909.8	9x9" (23x23cm)	150	8	Stacked
ValuSeal-HA®	VSHA.0909B.8	9x9" (23x23cm)	150	8	Value Pack
ValuSeal-HA®	VSHA.1212.14	12x12" (30x30cm)	75	14	Stacked
ValuSeal-HA®	VSHA.1212B.14	12x12" (30x30cm)	75	14	Value Pack



Vipers P115

- Material: Polyester
- Format: 23 x 23 cm
- Thickness: 0,53 mm
- Basic weight: 115 g/m²
- ISO 5
- GMP C/D
- Edge cut: laser cut
- Absorption capacity: 310 ml/m²
- Bag with 150 wipes



Vipers P140

- Material: Polyester
- Format: 10 x 10 cm, 15x 15 cm, 23 x 23 cm
- Thickness: 0,38 mm
- Basic weight: 140 g/m²
- ISO 5
- GMP C/D
- Edge cut: ultrasonically sealed
- Absorption capacity: 415 ml/m²
- Bag with 600, 300, 50 wipes



Vipers P140L

- Material: Polyester
- Format: 58 x 23 cm
- Thickness: 0,48 mm
- Basic weight: 320 g/m²
- ISO 5
- GMP C/D
- Edge cut: laser sealed
- Absorption capacity: 415 ml/m²
- Bag with 150 wipes



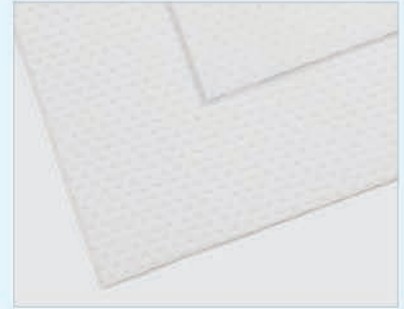
Vipers P160

- Material: Polyester
- Format: 23 x 23 cm
- Thickness: 0,45 mm
- Basic weight: 135 g/m²
- ISO 4
- GMP C/D
- Edge cut: laser sealed
- Absorption capacity: 320 ml/m²
- Bag with 150 wipes



Vipers PNW68

- Material: Polyester, nonwoven
- Format: 58 x 23 cm
- Thickness: 0,45 mm
- Basic weight: 68 g/m²
- ISO 5
- GMP C/D
- Edge cut: laser sealed
- Absorption capacity: 400 ml/m²
- Bag with 300 wipes



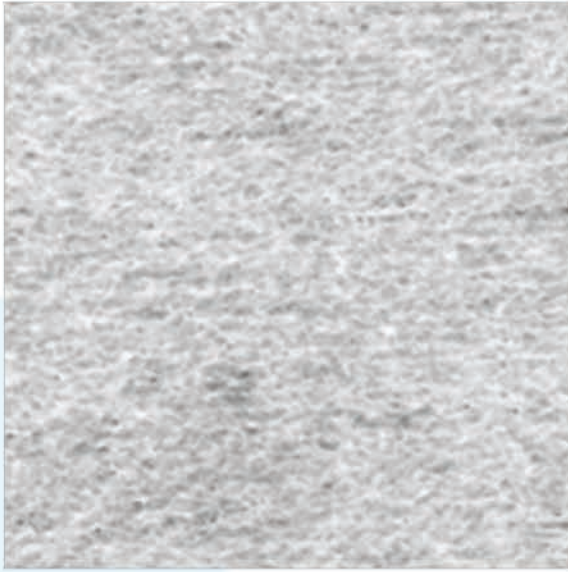
Vipers P0240

- Material: Polyester
- Format: 23 x 23 cm
- Thickness: 0,85 mm
- Basic weight: 240 g/m²
- ISO 5
- GMP C/D
- Edge cut: laser cut
- Absorption capacity: 650 ml/m²
- Bag with 100 wipes



Vipers P-T2F-140

- Material: Polyester
- Format: 10 x 10 cm, 15 x 15 cm, 23 x 23 cm, 30 x 30 cm.
- Thickness: 0,35-0.48 mm +/- 0.05 mm
- Basic weight: 140 g/m²
- ISO 4
- Free of titanium oxide
- Edge cut: ultrasonic cut and sealed
- Absorption capacity: 180 ml/m²
- Bag with 100 wipes



Series 401

Properties

- 100% polyester
- Hydro-entangled non-woven fabric
- Low particle and fibre emission
- Abrasion resistant
- Exceptional soft non-woven fabric
- Double bag packaging

Advantages

- Good chemical compatibility with different solvents and cleaning agents
- As a non-woven wipe also applicable in particle critical areas
- Due to the very soft non-woven fabric applicable for surfaces sensitive to scratches

Applications

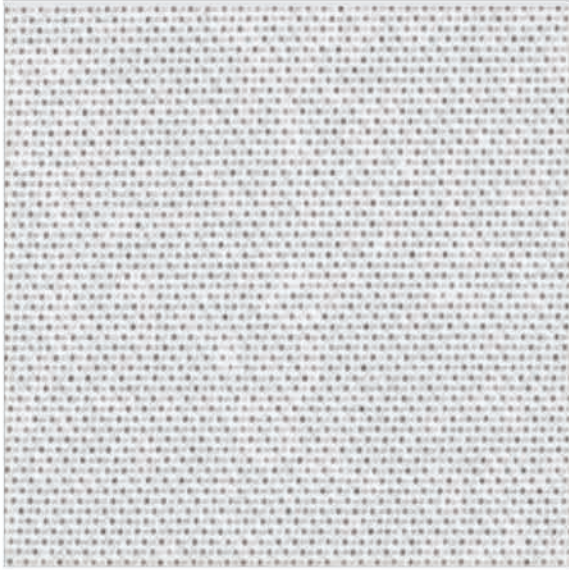
- Primarily for dry cleaning
- Cleaning wipe also for more sensitive areas
- Cleaning wipe for optical surfaces and other similarly sensitive surfaces (layers)

TECHNICAL DATA

PROPERTIES		UNITS	VALUE	TEST METHOD
Material			100% PES	
Edge processing			cold cut	
Mass per unit area		g/m ²	68	
Thickness		mils	17	
		mm	0.43	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	4.9	
(Ae) extrinsic		ml/m ²	327	
NVR	IPA based	g/m ²	0.017	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.068	
Particle residues	0.5 - ≤ 5.0 µm	106/m ²	22	IEST-RP-CC004.3
	> 5.0 - ≤ 100 µm	106/m ²	0.05	Section 6.1.3 Biaxial Shake Test
Fibre residues	> 100 µm	fibres/m ²	4,660	IEST-RP-CC004.3 Section 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	10	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	13	Section 7.2.2.1
Organic contaminants	Silicone oil		n. s.	by FTIR spectrometer
	Amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
4" x 4"	1,200 pieces	55401 0404
6" x 6"	300 pieces	55401 0606
9" x 9"	300 pieces	55401 0909
12" x 12"	150 pieces	55401 1212



Series 406

Properties

- 100% polyester continuous filament
- Thick, heavy weight interlock knitted fabric made from filaments
- Cold cut edges
- Not decontaminated (laundered)
- Double bag packaging

Advantages

- Usable in many ways, wet or dry
- Absorptive capacity
- Cost effective

Applications

- Wiping operations at workstations
- Absorption of leaks
- Maintenance of sharp-edged equipment

TECHNICAL DATA

PROPERTIES		UNITS	VALUE	TEST METHOD
Material			100% PES	
Edge processing			cold cut	
Mass per unit area		g/m ²	137	
Thickness		mils	22	
		mm	0.56	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	2.8	
(Ae) extrinsic		ml/m ²	343	
NVR	IPA based	g/m ²	0.070	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.065	
Particle residues	0.5 - ≤ 5.0 µm	106/m ²	42	IEST-RP-CC004.3
	> 5.0 - ≤ 100 µm	106/m ²	0.44	Section 6.1.3 Biaxial Shake Test
Fibre residues	> 100 µm	fibres/m ²	59,400	IEST-RP-CC004.3 Section 6.2.2.2
Ionic residues	Sodium (Na+)	ppm	21.3	IEST-RP-CC004.3
	Chloride (ClO ₂ -)	ppm	<0.2	Section 7.2.2.1
Organic contaminants	Silicone oil		n. s.	by FTIR spectrometer
	Amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
4" x 4"	600pieces	55406 0404
9" x 9"	150 pieces	55406 0909
12" x 12"	100 pieces	55406 1212



Series 407

Properties

- 100% polyester
- Interlock knitted fabric made from filaments
- Cold cut edges
- Not decontaminated (not laundered)
- Double bag packaging

Advantages

- Relatively good absorbency
- Very good abrasion resistance
- Very versatile in use

Applications

- Wiping operations at workstations
- Wiping of components and equipment
- Maintenance of sharp-edged equipment

TECHNICAL DATA

PROPERTIES		UNITS	VALUE	TEST METHOD
Material			100% PES	
Edge processing			cold cut	
Mass per unit area		g/m ²	105	
Thickness		mils	20	
		mm	0.51	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	3,4	
(Ae) extrinsic		ml/m ²	373	
NVR	IPA based	g/m ²	0.057	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.063	
Particle residues	0.5 – ≤ 5.0 µm	106/m ²	139	IEST-RP-CC004.3
	> 5.0 – ≤ 100 µm	106/m ²	0.39	Section 6.1.3 Biaxial Shake Test
Fibre residues	> 100 µm	fibres/m ²	84,500	IEST-RP-CC004.3 Section 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	38	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	52	Section 7.2.2.1
Organic contaminants	Silicone oil		n. s.	by FTIR spectrometer
	Amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9" x 9"	150 pieces	55407 0909



Series 410

Properties

- 100% polyester
- Two-ply interlock fabric made of filaments, ultrasonically welded and quilted
- Laser cut and sealed edges
- Very low particle and fibre emission
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Specially absorbent due to the double knitted construction
- Reduced particle and fibre emission due to the sealed edges
- Broad range of applications
- Available in a gamma-irradiated version

Applications

- Cleaning wipe especially for critical areas
- Cleaning wipe for areas where high absorbency and purity are required
- Good suitable for angular, rough surfaces and objects which might prematurely damage a non-woven fabric wipe

TECHNICAL DATA

PROPERTIES		UNITS	VALUE	TEST METHOD
Material			100% PES	
Edge processing			Laser cut	
Mass per unit area		g/m ²	251	
Thickness		mils	36	
		mm	0.91	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	2.7	
(Ae) extrinsic		ml/m ²	660	
NVR	IPA based	g/m ²	0.075	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.018	
Particle residues	0.5 - ≤ 5.0 µm	106/m ²	13	IEST-RP-CC004.3
	> 5.0 - ≤ 100 µm	106/m ²	0.13	Section 6.1.3 Biaxial Shake Test
Fibre residues	> 100 µm	fibres/m ²	550	IEST-RP-CC004.3 Section 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	0,8	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	0,7	Section 7.2.2.1
Organic contaminants	Silicone oil		n. s.	by FTIR spectrometer
	Amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
4" x 4"	300 pieces	55410 0404
9" x 9"	100 pieces	55410 0909
12" x 12"	100 pieces	55410 1212
12" x 6"	100 pieces	55410 1206
16" x 6"	100 pieces	55410 1606
12"x12"	100 pieces	55410-bulk 1212



Series 410-AF

Properties

- 100% polyester
- Two-ply interlock fabric made of filaments, ultrasonically welded and quilted
- Ultrasonically cut and sealed edges
- Very low particle and fibre emission
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Particularly absorbent due to the double knit construction
- Reduced particle and fibre emission due to the sealed edges
- Wide range of applications, especially in the field of surface disinfection
- Properties like series 410 and besides slightly cheaper

Applications

- Cleaning wipe especially for critical areas
- Cleaning wipe for areas where high absorbency and purity are required
- Well suited for angular, rough surfaces and objects which might prematurely damage a non-woven fabric wipe

TECHNICAL DATA

PROPERTIES		UNITS	VALUE	TEST METHOD
Material			100% PES	
Edge processing			Ultrasonica cut	
Mass per unit area		g/m ²	265	
Thickness		mm	0.87	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	3.24	
(Ae) extrinsic		ml/m ²	858	
NVR	IPA based	g/m ²	1.66	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	n.s.	
Particle residues	>5.0 µm	10 ³ /m ²	0.495 n.s.	IEST-RP-CC004.3 Section 6.1.3 Biaxial Shake Test
Fibre residues	> 100 µm	fibres/m ²		IEST-RP-CC004.3 Section 6.2.2.2
Ionic residues				
Organic contaminants	Aluminium (Al-)	µg/cm ²	n.s.	IEST-RP-CC004.3
	Calcium (Ca+)	µg/cm ²	0.001	Section 7.2.2.1
	Magnesium (Mg+)	µg/cm ²	0.001	
	Nitrite (NO ₂ -)	µg/cm ²	n.s.	
	Phosphate (PO ₄ 3-)	µg/cm ²	n.s.	
	Potassium (K+)	µg/cm ²	0.001	
	Sodium (Na+)	µg/cm ²	0.011	
	Sulphate (SO ₄ 2-)	µg/cm ²	0.004	
	Silicone oil		n. d.	by FTIR spectrometer
	Amides		n. d.	Fourier transform infrared spectrometer
D-n-octylphthalate (DOP)		n. d.		

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
4" x 4"	300 pieces	55410-AF 0404
9" x 9"	100 pieces	55410-AF 0909
4" x 4"	300 pieces	55410AF-bulk 0404
9" x 9"	100 pieces	55410AF-bulk 0909
12" x 12"	100 pieces	55410AF-bulk 1212
25" x 25"	100 pieces	55410AF-bulk 2525



Series 410-10

Properties

- 100% polyester
- Two-ply interlock fabric made of filaments, ultrasonically welded and quilted
- Laser cut and sealed edges
- Very low particle and fibre emission
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Similar to Series 410, but cheaper
- Particularly absorbent due to double-knit construction
- Reduced particle and fibre emission due to sealed edges
- Wide range of applications, especially in the field of surface disinfection

Applications

- Cleaning wipe especially for critical areas
- Cleaning wipe for areas where high absorbency and cleanliness are required
- Well suitable for angular, rough surfaces and objects which might prematurely damage a non-woven fabric wipe

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100% PES	
Edge processing			laser cut	
Mass per unit area		± 10 g/m ²	250	
Thickness		mils	n.s.	
		mm	n.s.	
Absorptive capacity				IEST-RP-CC004.3
(Al) intrinsic		ml/g	2.1	
(Ae) extrinsic		ml/m ²	460	
Absorbency rate		sec	< 5	IEST-RP-CC004.3
NVR	IPA based	µg/cm ²	0.05	IEST-RP-CC004.3
Non-volatile residues	DI water based	µg/cm ²	0.01	
Particulate residues	> 0.5 µm	x 10 ⁶ /m ²	8	IEST-RP-CC004.3
				Section 6.2.1
Fibre residues	≥ 100 µm	count/m ²	190	IEST-RP-CC004.3
Ionic residues	Ammonium (NH ₄ ⁺)	µg/g	0.50	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	µg/g	0.80	
	Nitrate (NO ₃ ⁻)	µg/g	0.80	
	Potassium (K ⁺)	µg/g	0.20	
	Sodium (Na ⁺)	µg/g	0.60	
	Sulphate (SO ₄ ²⁻)	µg/g	0.30	
Organic contaminants	Silicone oil		n. d.	by FTIR spectrometer
	Amides		n. d.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. d.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9" x 9"	50 pieces	55410-10 0909
12" x 12"	50 pieces	55406-10 1212
16" x 16"	25 pieces	55406-10 1616



Series 414

Properties

- 100% polyester
- Knitted fabric made of filaments
- Non-sealed, cold cut edges
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- High absorbency
- Particularly clean
- Good chemical resistance
- High abrasion resistance
- Low load on non-volatile residues (NVR) and ions

Applications

- Cleaning wipe for critical as well as non-critical areas
- Well suited for angular, rough surfaces and objects that might prematurely damage a non-woven wipe

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100 % PES	
Edge processing			cold cut	
Mass per unit area		± 10 g/m2	145	
Absorption capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	2.Agu	
(Ae) extrinsic		ml/m2	420	
Absorbency rate		second	< 1	IEST-RP-CC004.3
NVR	IPA based	g/m2	0.05	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m2	0.005	
Particle residues	≥ 0.5 µm - 20 µm	x 106/m2	5.May	IEST-RP-CC004.3Sec. 6.1.4 Orbital shake test
Fibre residues	≥ 100 µm	count/m2	570	IEST-RP-CC004.3
Ionic residues	Chloride (ClO2-)	µg/g	0.10	IEST-RP-CC004.3
	Sodium (Na+)	µg/g	0.15	
	Sulphate (SO42-)	µg/g	0.08	
Organic contaminants	Silicone oil		n. d.	by FTIR spectrometer
	Amides		n. d.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. d.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9" x 9"	150 pieces	55414 0909
12" x 12"	100 pieces	55414 1212
16" x 16"	50 pieces	55414 1616



Series 415

Properties

- 100% polyester
- Knitted fabric made of filaments
- Edges cut and sealed by laser
- Low particle and fibre emission
- Abrasion resistant
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Robust wipe
- Reduced particle and fibre emission due to the sealed edges
- Very wide range of applications
- Low ionic and metallic
- Available in a gamma-irradiated version

Applications

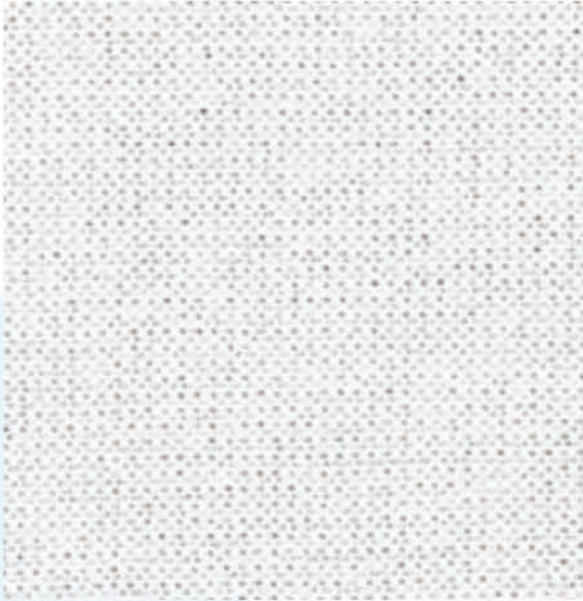
- Cleaning wipe for critical and non-critical areas
- Well suited for angular, rough surfaces and objects that might prematurely damage a non-woven fabric wipe

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100 % PES	
Edge processing			laser cut	
Mass per unit area		± 10 g/m2	145	
Absorption capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	3.0	
(Ae) extrinsic		ml/m2	400	
Absorbency rate		second	< 1	IEST-RP-CC004.3
NVR	IPA based	g/m2	0.015	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m2	0.004	
Particle residues	> 0.5 µm – ≤ 100 µm	x 106/m2	3	IEST-RP-CC004.3
				Sec. 6.1.4 Orbital shake test
Fibre residues	≥ 100 µm	count/m2	114	IEST-RP-CC004.3
Ionic residues	Chloride (ClO2-)	µg/g	0.10	IEST-RP-CC004.3
	Sodium (Na+)	µg/g	0.15	
	Sulphate (SO42-)	µg/g	0.08	
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9" x 9"	150 pieces	55415 0909
12" x 12"	100 pieces	55415 1212
16" x 16"	50 pieces	55415 1616
18" x 18"	75 pieces	55415 1818



Series 416-REC

Properties

- 100% polyester made from 100% recycled materials
- Knitted fabric made of filaments
- Edges cut and sealed by laser
- Relative low particle and fibre emission
- Abrasion resistant
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Robust wipe
- Reduced particle and fibre emission due to the sealed edges
- Very wide range of applications
- Low ionic and metallic
- Available in a gamma-irradiated version

Applications

- Cleaning wipe for critical and non-critical areas
- Well suited for angular, rough surfaces and objects that might prematurely damage a non-woven fabric wipe

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100 % PES	
Edge processing			laser cut	
Mass per unit area		± 10 g/m2	134	
Absorption capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	2.7	Section 8.1
(Ae) extrinsic		ml/m2	354	
Absorbency rate		second	< 1	IEST-RP-CC004.3 Section 8.2
NVR	IPA based	g/m2	0.0146	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m2	0.0033	Section 7.1.2
Particle residues	> 0.5 µm – ≤ 100 µm	x 106/m2	6.9	Short-term and ambient temperature extraction IEST-RP-CC004.3, Section 6.1.4 Orbital shake test
Fibre residues	> 100 µm	fibres/m2	n. s.	IEST-RP-CC004.3
Ionic residues	Chloride (ClO2-)	µg/g	0.041	IEST-RP-CC004.3
	Nitrate (NO3-)	µg/g	0.437	Section 7.2.2.1 b
	Potassium (K+)	µg/g	n. d.	Standard extraction method
	Sodium (Na+)	µg/g	0.147	
	Sulphate (SO42-)	µg/g	0.103	
Organic contaminants	Silicone oil		n. s.	by FTIR spectrometer
	Amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9" x 9"	150 pieces	55416-REC 0909
12" x 12"	100 pieces	55416-REC 1212



Series 417

Properties

- 100% polyester
- Knitted fabric made from microfibres
- Edges cut and sealed by laser
- Low particle and fibre emission
- Abrasion resistant
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Robust wipe, slightly lighter than series 415
- Reduced particle and fibre emission due to the sealed edges
- Very wide range of applications
- Low ionic and metallic impurities

Applications

- Cleaning wipe for critical and non-critical areas
- Well suited for angular, rough surfaces and objects that might prematurely damage a non-woven fabric wipe

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100% PES	
Edge processing			laser cut	
Mass per unit area		± 10 g/m2	125	
Absorption capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	2.8	
(Ae) extrinsic		ml/m2	350	
Absorbency rate		second	< 1	IEST-RP-CC004.3
NVR	IPA based	g/m2	0.05	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m2	0.001	
Particle residues	> 0.5 µm – < 20 µm	x 106/m2	3.2	IEST-RP-CC004.3, Sec. 6.1.4 Orbital shake test
Fibre residues	> 100 µm	fibres/m2	100	IEST-RP-CC004.3
Ionic residues	Chloride (ClO2-)	µg/g	0.10	IEST-RP-CC004.3
	Nitrate (NO3-)	µg/g	0.20	
	Potassium (K+)	µg/g	0.05	
	Sodium (Na+)	µg/g	0.05	
	Sulphate (SO42-)	µg/g	0.08	
Organic contaminants	Silicone oil		n. d.	by FTIR spectrometer
	Amides		n. d.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. d.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9" x 9"	150 pieces	55417 0909



Series 418

Properties

- 100% polyester
- Knitted fabric made of filaments
- Unsealed, cold cut edges
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Very robust cleaning wipe
- More absorbent than most single-ply polyester wipes
- Low ionic and metallic contamination due to decontamination
- Very wide range of applications

Applications

- Cleaning wipe for critical and non-critical areas
- Well suited for angular, rough surfaces and objects that might prematurely damage a non-woven fabric wipe

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100 % PES	
Edge processing			cold cut	
Mass per unit area		g/m ² ± 10%	175	
Absorption capacity		ml/g	3.0	IEST-RP-CC004.3
(Ai) intrinsic		ml/m ²	3.7	
(Ae) extrinsic				
Absorbency rate		second	1	IEST-RP-CC004.3
NVR	IPA based	g/m ²	0.05	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.02	
Particle residues	> 0.5 µm – ≤ 100 µm	x 10 ⁶ /m ²	8.1	IEST-RP-CC004.3
				Sec. 6.1.4 Orbital shake test
Fibre residues	≥ 100 µm	count/m ²	10.3	IEST-RP-CC004.3
				Sec. 6.2.2.2.
Ionic residues	Chloride (ClO ₂ ⁻)	µg/g	0.20	IEST-RP-CC004.3
	Nitrate (NO ₃ ⁻)	µg/g	0.20	
	Potassium (K ⁺)	µg/g	0.10	
	Sodium (Na ⁺)	µg/g	0.10	
	Sulphate (SO ₄ ²⁻)	µg/g	0.10	
Organic contaminants	Silicone oil		n. d.	by FTIR spectrometer
	Amides		n. d.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. d.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9" x 9"	150 pieces	55418 0909
12" x 12"	100 pieces	55418 1212



Anticon 100® StandartWeight™

Properties

- 100% polyester
- Double-knit interlock fabric made of filaments
- Cold cut edges
- Chemically resistant
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Robust wipe fabric
- Very wide range of applications
- Low ionic and metallic impurities

Applications

- Cleaning wipe for both critical and non-critical areas
- Well suited for angular, rough surfaces and objects that might damage a non-woven wipe

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100% PES	
Edge processing			cold cut	
Surface weight		g/m ²	120	
Absorption capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	2.1	Section 8.1
(Ae) extrinsic		ml/m ²	339	
NVR	IPA based	µg/cm ²	0.08	IEST-RP-CC004.3
Non-volatile residues	DI water based	µg/cm ²	0.04	Section 7.1.1
Particulate residues	≥ 0.5 µm	x 10 ³ /cm ²	0.397	IEST-RP-CC004.3
				Sec. 6.1.3
				Biaxial Shake Test and LPC
Fibre residues	≥ 100 µm	fibres/cm ²	0.1558	IEST-RP-CC004.3
				Sec. 6.2.2
				Optical and Scanning Electron Microscopy
Ionic residues	Sodium (Na) ⁺	ppm	0.184	IEST-RP-CC004.3
	Chloride (Cl) ⁻	ppm	0.030	Section 7.2.2
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9" x 9"	150 pieces	51MI-495352B
12" x 12"	100 pieces	51MI-495352



StatZorb®

Properties

- 98% polyester, 2% conductive fibre (polyamide/carbon)
- Interlock fabric made from filaments with a specially designed grid weave pattern
- Surface resistance 4.3×10^7
- Electrostatic discharge < 1.5 sec.
- Laser cut and sealed edges
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Electrostatically conductive wipe on both sides thanks to the grid pattern of the threads with carbon
- Reduced particle and fibre emission due to the thermally sealed edges
- Abrasion and chemical resistance

Applications

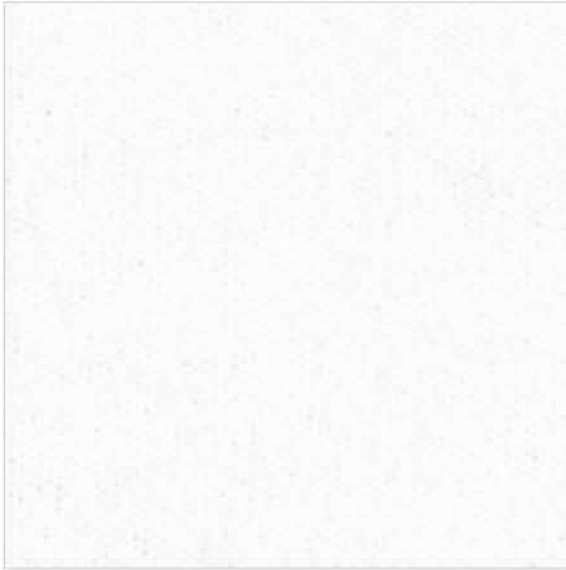
- Cleaning work in electrostatically critical areas
- Dry wiping of sensitive electronic components
- Manufacture of disk drives and magnetic resonance heads

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			98% PES, 2% conductive fibre (PA/C)	
Edge processing			laser cut	
Mass per unit area		g/m ²	135	
Absorption capacity				IEST-RP-CC004.2
(Al) Intrinsic		ml/g	1.Haz	Section 7.1
(Ae) extrinsic		ml/m ²	215	
Absorption rate		second	1	IEST-RP-CC004.2
				Section 7.1
Surface resistivity		Ohm	4.3×10^7	n. s.
Electrostatic dissipation		second	< 1.5	n. s.
NVR	IPA based	g/m ²	0.332	IEST-RP-CC004.2
Non-volatile residues	DI water based	g/m ²	0.075	Section 6.1.2
Particle residues	≥ 0.5 µm	x 106/m ²	33.6	IEST-RP-CC004.2
				Section 5.1
Fibre residues	> 100 µm	103/m ²	5.7	IEST-RP-CC004.2
				Section 5.2
Ionic residues	Sodium (Na ⁺)	ppm	12	IEST-RP-CC004.2
	Chloride (ClO ₂ ⁻)	ppm	9	Section 6.2.2
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9" x 9"	150 pieces	51344



Series 428

Properties

- 100% polyester
- Knitted fabric made from microfibres
- Edges cut and sealed by laser
- Low particle and fibre emission
- Abrasion resistant
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Wipe with good cleaning efficiency
- Reduced particle and fibre emission due to sealed edges
- Very wide range of applications
- Low ionic and metallic contamination
- Soft surface structure

Applications

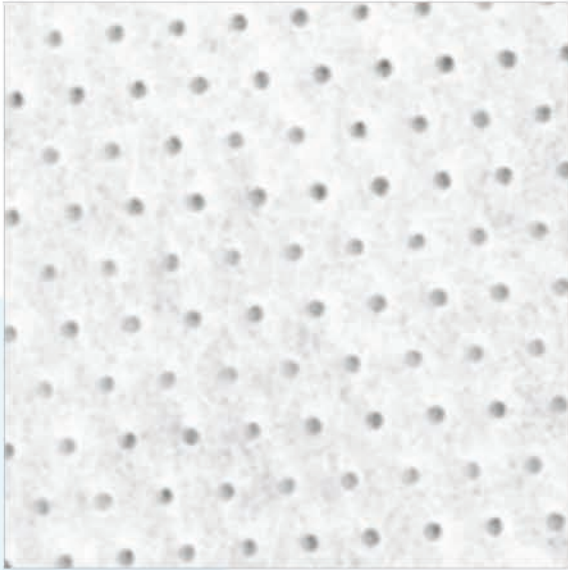
- Cleaning wipe especially for critical areas as well as for all other zones
- Well suited for optical devices, screens and other scratch-sensitive surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100% PES	
Edge processing			Laser cut	
Mass per unit area		± 10 g/m ²	155	IEST-RP-CC004.3
Absorption capacity				
(Ai) intrinsic		ml/g	3.0	
(Ae) extrinsic		ml/m ²	5.3	IEST-RP-CC004.3
Absorbency rate		second	< 1	IEST-RP-CC004.3
NVR	IPA based	g/m ²	0.08	
Non-volatile residues	DI water based	g/m ²	0.03	IEST-RP-CC004.3
Particle residues	> 0.5 µm	x 10 ⁶ /m ²	8.1	Sec. 6.2.1
				IEST-RP-CC004.3
Fibre residues	≥ 100 µm	count/m ²	12.5	IEST-RP-CC004.3
Ionic residues	Chloride (ClO ₂ ⁻)	µg/g	0.20	
	Nitrate (NO ₃ ⁻)	µg/g	0.20	
	Potassium (K ⁺)	µg/g	0.10	
	Sodium (Na ⁺)	µg/g	0.10	
	Sulphate (SO ₄ ²⁻)	µg/g	0.10	IEST-RP-CC004.3
Organic contaminants	silicone oil		n. d.	by FTIR spectrometer
	amides		n. d.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. d.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9" x 9"	150 pieces	55428 0909
12" x 12"	100 pieces	55428 1212



Series 700

Properties

- 3-layer non-woven wipe, in sandwich construction
- Polypropylene / cellulose / polypropylene
- Medium particle and fibre emission
- Abrasion resistant
- Chemically stable
- Packed in a double bag

Advantages

- Highly absorbent
- Versatile
- Very robust and abrasion-resistant despite the non-woven fabric construction due to the polypropylene outer layers
- Relatively inexpensive

Applications

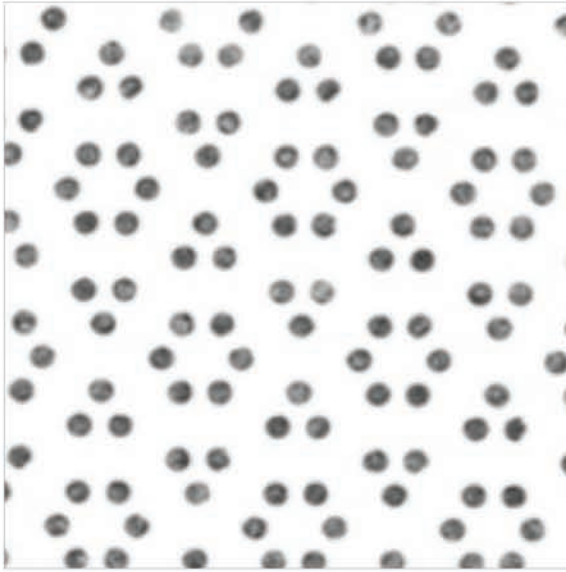
- All-purpose wipe
- Absorption of aqueous spills
- Application or removal of chemicals and solvents can be done with a single step
- Workplace and tool cleaning

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			PP/CEL/PP	
Edge processing			cold cut	
Mass per unit area		g/m ²	88	
Thickness		mils	27	
		mm	0.69	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	6.2	
(Ae) extrinsic		ml/m ²	553	
NVR	IPA based	g/m ²	0.072	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.077	
Particle residues	0.5 - < 5.0 µm	x 106/m ²	12.2	IEST-RP-CC004.3
	> 5.0 - ≤ 100 µm	x 106/m ²	0.85	Biaxial Shake Test
Fibre residues	> 100 µm	x 103/m ²	1.3	IEST-RP-CC004.3
				Section 6.2.2.2
Ionic residues	Chloride (ClO ₂ ⁻)	ppm	4.3	IEST-RP-CC004.3
	Sodium (Na ⁺)	ppm	82	Section 7.2.2.1
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
8" x 9"	100 pieces	55700 0809
11"x12"	100 pieces	55700 1112



Series 704

Properties

- 100% polypropylene
- Meltblown non-woven fabric
- Thermally bonded, free of adhesives and binders
- Cold cut edges
- Single bag packaging

Advantages

- Chemically stable
- Versatile
- Good absorption capacity
- Good abrasion resistance

Applications

- All-purpose wipe
- Removal or application of acids, alkalis and solvents can be carried out in a single wiping operation
- Workplace and tool cleaning

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100% PP	
Edge processing			cold cut	
Mass per unit area		g/m ²	84.8	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	n. s.	
(Ae) extrinsic		ml/m ²	20.3	
Absorbency rate		second	1.4	IEST-RP-CC004.3
NVR	IPA based	g/m ²	0.27	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.22	
Particulate residues	> 0.5 - < 100 µm	x 106/m ²	13.1	IEST-RP-CC004.3
				Section 6.1.3
				Biaxial shake test
Fibre residues	≥ 100 µm	x 103/m ²	6.3	IEST-RP-CC004.3
				Section 6.2.2
				Optical (OM) and Scanning Electron Microscopy (SEM)
Ionic residues	Chloride (ClO ₂ ⁻)	ppm	36.00	IEST-RP-CC004.3
	Potassium (K ⁺)	ppm	5.30	
	Sodium (Na ⁺)	ppm	87.90	
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9" x 9"	100 pieces	55704 0909
12" x 12"	100 pieces	55704 1212



Series 706

Properties

- 100% polypropylene
- Meltblown non-woven fabric
- Abrasion resistant
- Chemically stable
- Structured surface
- Single bag packaging

Advantages

- High absorption capacity
- Low abrasion
- Tear-resistant
- Silicone-free

Applications

- All-purpose wipe
- Removal or application of acids, alkalis and solvents can be carried out in a single operation
- Workplace and tool cleaning

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100% PP	
Edge processing			cold cut	
Mass per unit area		± 6 g/m ²	60	DIN EN 12127 NWSP 130.1.R0 (15)
Absorptive capacity		% minimum	30.Kas	DIN 53923
		% set	19.0ca	NWSP 010.2.R1 (15)
NVR	IPA based	g/m ²	n. a.	according to IEST-RP-CC004.3
Non-volatile residues	DI-water based	g/m ²	n. a.	
Particle residues	> 0.5 µm	x 10 ⁶ /m ²	n. a.	according to IEST-RP-CC004.3
Fibre residues	> 100 µm	fibres/m ²	n. a.	according to IEST-RP-CC004.3
Tensile strength	Machine direction (MD)	N/5 cm	18-20 (min.-set)	DIN EN 29073 T3
	Cross direction (CD)	N/5 cm	16-18 (min.-set)	NWSP 110.4.R0 (15)
Elongation	Machine direction (MD)	%	20-30 (min.-set)	DIN EN 29073 T3
	Cross direction (CD)	%	30-40 (min.-set)	NWSP 110.4.R0 (15)
Ionic residues	Chloride (ClO ₂ ⁻)	ppm	n. a.	according to IEST-RP-CC004.3
	Sodium (Na ⁺)	ppm	n. a.	
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	



MicroPolx® 1100 Sealed Edge Cleanroom Wiper
Cleanroom Laundered Polyester Microfiber Knitted Wiper

Key Attributes

- 100% polyester microfiber construction
- 3 times the yarn surface area of standard polyester cleanroom wipers
- Laser cut edges minimize fiber and particle generation
- Laundered and packaged in an ISO Class 4 (Class 10) cleanroom
- Stable double-knit construction
- Low ion and NVR levels

Benefits

- Stable double-knit construction, continuous filament yarns and tight knit structure provide excellent abrasion resistance
- Soft smooth surface is suitable for cleaning sensitive or scratch prone surfaces
- High fiber surface area for improved wiping efficiency
- Chemically compatible with IPA and other commonly used solvents
- Light weight material design as compared to other microfiber wipes reduces cost in use
- Steam autoclavable for aseptic applications

Applications

- Designed for use in ISO Class 4 (Class 10) and higher cleanroom environments
- Cleaning delicate or scratch sensitive surfaces
- Suited for cleaning optical machinery and tools
- Cleaning of medical device products
- Applying or removing cleaning and disinfecting solutions
- Flat panel displays
- Cell phone and tablet screens
- Repair/rework mobile devices

TECHNICAL DATA

PROPERTIES		UNIT	VALUE	TEST METHOD
Basis Weight		g/m ²	115	TAPPI T410
Caliper		µm	425	ASTM D1777
Fibers	≥100µm	fibers/cm ²	0.050	IEST-RP.CC004.3, Sec 6.1.4 / Sec 6.2.2
Particles	≥0.5µm	x10 ³ /cm ²	0.80	IEST-RP.CC004.3, Sec 6.1.4 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	355	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.1	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m ²	0.0025	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0095	
Ions	Na ⁺	ppm	0.0050	IEST-RP.CC004.3, Sec 7.2.2
	K ⁺	ppm	0.0020	
	Ca ⁺⁺	ppm	0.095	
	Mg ⁺⁺	ppm	0.0015	
	Cl ⁻	ppm	0.055	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
MicroPolx® 1100	MP1100090914	9x9" (23x23cm)	150	14	Stacked
MicroPolx® 1100	MP1100121210	12x12" (30x30cm)	150	10	Stacked



MicroPolx® 2750 Sealed Edge Cleanroom Wiper
Cleanroom Laundered Polyester/Nylon Microfiber Knitted Wiper

Key Attributes

- 70% polyester/30% nylon microfiber knitted wiper
- 8 times the number of filaments and 4 times the surface area of standard polyester wipers
- Ultrasonically sealed edges minimize fiber and particle generation and provide a smooth nonabrasive edge
- Laundered and packaged in an ISO Class 4 (Class 10) cleanroom

Benefits

- Ultrafine microfiber yarn increases surface area and provides superior wiping efficiency
- Wedge shaped fiber cross section lifts, entraps and removes particulates from critical surfaces
- Cleans efficiently with less solvent usage than traditional wipers
- Removes oily soils with little or no solvent required
- Soft hand and non-abrasive ultrasonic sealed edge are excellent for sensitive or scratch prone surfaces
- Continuous filament yarns and tight knit construction provide excellent abrasion resistance and low fiber shedding
- Chemically compatible with IPA and other commonly used solvents

Applications

- Designed for use in ISO Class 4 (Class 10) and higher cleanroom environments
- Designed for scratch sensitive surfaces
- Used in display and semiconductor industries
- Suited for cleaning precise optical machinery and tools
- Used for cleaning a delicate process in critical cleanrooms
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

PROPERTIES		UNIT	VALUE	TEST METHOD
Basis Weight		g/m2	194	TAPPI T-410
Caliper		µm	378	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.20	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	3.4	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	302	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modi-
	Efficiency	mL/g	1.6	
	Rate	seconds	8	
Non-Volatile Residue	DI Water	g/m2	0.016	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m2	0.025	
Ions	Na+	ppm	0.12	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.020	
	Ca++	ppm	2.8	
	Mg++	ppm	0.14	
	Cl-	ppm	0.28	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
MicroPolx® 2750	MPX2750.0909.10	9x9" (23x23cm)	100	10	Stacked



MicroPolx® 2850 Sealed Edge Cleanroom Wiper
Cleanroom Laundered Polyester/Nylon Microfiber Knitted Wiper

Key Attributes

- 70% polyester/30% nylon microfiber knitted wiper
- 8 times the number of filaments and 4 times the surface area of standard polyester wipers
- Ultrasonically sealed edges minimize fiber and particle generation and provide a smooth nonabrasive edge
- Laundered and packaged in an ISO Class 4 (Class 10) cleanroom

Benefits

- Ultrafine microfiber yarn increases surface area and provides superior wiping efficiency
- Wedge shaped fiber cross section lifts, entraps and removes particulates from critical surfaces
- Cleans efficiently with less solvent usage than traditional wipers
- Removes oily soils with little or no solvent required
- Soft hand and non-abrasive ultrasonic sealed edge are excellent for sensitive or scratch prone surfaces
- Continuous filament yarns and tight knit construction provide excellent abrasion resistance and low fiber shedding
- Chemically compatible with IPA and other commonly used solvents

Applications

- Designed for use in ISO Class 4 (Class 10) and higher cleanroom environments
- Designed for scratch sensitive surfaces
- Used in display and semiconductor industries
- Suited for cleaning precise optical machinery and tools
- Used for cleaning a delicate process in critical cleanrooms
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

PROPERTIES		UNIT	VALUE	TEST METHOD
Basis Weight		g/m2	199	TAPPI T-410
Caliper		µm	483	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.15	IEST-RP.CC004.3, Sec 6.1.4 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	6.2	IEST-RP.CC004.3, Sec 6.1.4 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	365	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	1.8	
	Rate	seconds	7	
Non-Volatile Residue	DI Water	g/m2	0.013	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m2	0.10	
Ions	Na+	ppm	0.20	IEST-RP.CC004.3, Sec 7.2.2
	K+	ppm	0.0065	
	Ca++	ppm	2.9	
	Mg++	ppm	0.32	
	Cl-	ppm	0.067	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
MicroPolx® 2850	MPX2850090910	9x9" (23x23cm)	100	10	Stacked
MicroPolx® 2850	MPX2850121210	12x12" (30x30cm)	100	10	Stacked



MicroPolx® 4000-HP

80% Polyester / 20% Nylon Sealed Edge Microdenier Cleanroom Wiper

Composition and Attributes

- 80 %Polyester / 20% nylon microdenier knitted wiper
- Laundered and packaged in an ISO Class 4 cleanroom
- Ultrasonically sealed edges minimize fiber and particle generation
- Abrasion resistant

Benefits

- Microfiber yarn increases surface area and provides superior wiping efficiency and sorptive performance
- Cleans efficiently with less solvent usage than traditional wipers
- Removes oily soils with little or no solvent required
- Soft hand and non-abrasive sealed-edge are excellent for sensitive , or scratch prone surfaces
- Chemically compatible with IPA and other commonly used solvents
- Complies with RoHS

Applications

- Semiconductor
- TFT–LCD
- Suited for cleaning precise optical machinery and tools
- Used for cleaning a delicate process in critical cleanrooms
- Compatible with ISO Class 4 (Class 10) cleanroom applications and above
- Irradiated options are available

TECHNICAL DATA

PROPERTIES		UNIT	VALUE	TEST METHOD
Basis Weight		g/m2	259	TAPPI T-410
Caliper		µm	495	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.21	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	10	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	430	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	1.6	
	Rate	seconds	10	
Non-Volatile Residue	DI Water	g/m2	0.021	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m2	0.24	
Ions	Na+	ppm	0.25	IEST-RP.CC004.3, Sec 7.2.2
	K+	ppm	0.085	
	Ca++	ppm	1.5	
	Mg++	ppm	0.079	
	Cl-	ppm	0.45	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
MicroPolx® 4000-HP	MP4000HP060640	6x6" (15x15cm)	25	40	Stacked
MicroPolx® 4000-HP	MP4000HP090910	9x9" (23x23cm)	50	10	Stacked



Clino® Glass Cloth

The high-purity super microfiber enables streak-free cleaning of smooth surfaces.

Surfaces

- For all super smooth surfaces such as glass mirrors etc.

Cloth Material

- %80 Polyester %20 Polyamide with overlocking

ORDER INFORMATION

PRODUCT	NUMBER	CLOTH WEIGHT	SIZE	PKS UNIT	PKS/BOX
Clino® glass cloth, blue	2650002	48g	40x40cm	50 pieces	5
Clino® glass cloths, green	2650004	48g	40x40cm	50 pieces	5

**Vipers MF100**

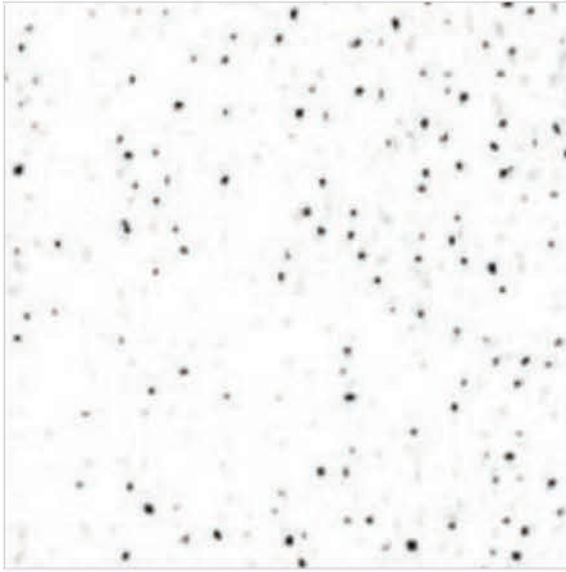
- Material: Polyester nylon blend fabric (microfiber)
- Format: 23 x 23 cm
- Thickness: 0,21 mm
- Basic weight: 100 g/m²
- ISO 4
- GMP C/D
- Edge cut: laser sealed
- Absorption capacity: 218 ml/m²
- Bag with 100 wipes

**Vipers MF200**

- Material: Polyester nylon blend fabric (microfiber)
- Format: 23 x 23 cm
- Thickness: 0,43 mm
- Basic weight: 197 g/m²
- ISO 4
- GMP C/D
- Edge cut: laser sealed
- Absorption capacity: 300 ml/m²
- Bag with 100 wipes

**Vipers MF240**

- Material: Polyester nylon blend fabric (microfiber)
- Format: 23 x 23 cm
- Thickness: 0,53 mm
- Basic weight: 240 g/m²
- ISO 4
- GMP C/D
- Edge cut: laser sealed
- Absorption capacity: 450 ml/m²
- Bag with 50 wipes



Series 400-AF

Properties

- 70% polyester / 30% polyamide
- Water-jet compacted microfibre non-woven fabric
- Cold cut edges
- Packed in a single PE-bag

Advantages

- Good absorbency measured by mass per unit area
- Abrasion and tear resistant
- Good resistance to chemicals normally used in cleanrooms
- Soft handle and gentle on scratch-sensitive surfaces

Applications

- Cleaning wipe especially for critical areas
- Cleaning wipe for areas where high absorbency and cleanliness are required
- Cleaning wipe for optical surfaces, as well as other similarly sensitive surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material		g/m ²	70% PES / 30% PA	ASTM D629
		µm		Standard Test Methods for Quantitative Analysis of Textiles
Edge processing		fibers/cm ²	cold cut	
Mass per unit area		x103/cm ²	60	
Absorptive capacity		mL/m ²		IEST-RP-CC004.3
(Ai) intrinsic		mL/g	n. s.	Section 8.3
(Ae) extrinsic		seconds	212.5	
Absorbency rate		g/m ²	1	IEST-RP-CC004.3
		g/m ²		Section 8.2
NVR	IPA based	ppm	n. d.	IEST-RP-CC004.3
Non-volatile residues	DI water based	ppm	2.3	Section 7.1
Particle residues	0.1 – ≤ 0.2 µm	ppm	5.1	IEST-RP-CC004.3
	> 0.2 – ≤ 0.5 µm	ppm	4.1	Section 6.1.3 and 6.2.1
	> 0.5 – ≤ 1.0 µm	ppm	1,47	Biaxial shake test & per liquid(-borne) particle counter (LPC)
	> 1.0 µm		31.12	
Fibre residues	> 100 µm		n.s.	IEST-RP-CC004.3
				Section 6.1.3 and 6.2.1
Ionic residues	Ammonium (NH ₄ ⁺)		0.0033	IEST-RP-CC004.3
	Bromide (Br ⁻)		112	Section 7.2.2
	Calcium (Ca ⁺)		0.0757	measured by ion chromatograph
	Chloride (ClO ₂ ⁻)		n. d.	
	Fluorine (F ⁻)		n. d.	
	Iodine (I ⁺)		n. d.	
	Lithium (Li ⁺)		n. d.	
	Magnesium (Mg ⁺)		n. d.	
	Nitrate (NO ₃ ⁻)		0.0216	
	Phosphate (PO ₄ ³⁻)		n. d.	
	Potassium (K ⁺)		0.0053	
	Sodium (Na ⁺)		0.825	
	Sulphate (SO ₄ ²⁻)		0.424	
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	PU PER CARTON
9" x 10"	300 pieces	12



Series 425

Properties

- 70% polyester / 30% nylon
- Knitted fabric made from microfibres
- Edges cut and sealed by laser
- Low particle and fibre emission
- Abrasion resistant
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Wipe with very high cleaning efficiency
- Reduced particle and fibre emission due to the sealed edges
- Very wide range of applications
- Low ionic and metallic impurities
- Soft surface and therefore also suitable for scratch-sensitive surfaces
- Also available in a gamma-irradiated Version

Applications

- Cleaning wipe especially for critical areas
- Cleaning wipe for all other areas
- Well suited for sharp-edged, rough surfaces and objects that might prematurely damage a non-woven wipe

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			70% PES / 30% PA 6.6	
Edge processing			laser cut	
Mass per unit area		g/m ² ± 10%	190	
Absorption capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	n. s.	
(Ae) extrinsic		ml/m ²	25.12	
NVR	IPA based	g/m ²	0.12	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.03	
Particle residues	> 0.5 µm – 2,0 µm	x 106/m ²	15	IEST-RP-CC004.3
				Section 6.1.4 Orbital shake test
Fibre residues	≥ 100 µm	count/m ²	4.4	IEST-RP-CC004.3
Ionic residues	Chloride (ClO ₂ ⁻)	µg/g	0.50	IEST-RP-CC004.3
	Nitrate (NO ₃ ⁻)	µg/g	0.50	
	Potassium (K ⁺)	µg/g	0.20	
	Sodium (Na ⁺)	µg/g	1.00	
	Sulphate (SO ₄ ²⁻)	µg/g	0.20	
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9" x 9"	100 pieces	55425 0909
12" x 12"	50 pieces	55425 1212
12" x 16"	50 pieces	55425 1218



BlueSorb® 750

55% Cellulose / 45% Polyester Nonwoven Cleanroom Wiper

Key Attributes

- 55% cellulose / 45% polyester hydroentangled nonwoven blend
- Blue colour
- No binders

Benefits

- Excellent combination of the synthetic polyester strength and cleanliness with the absorbent characteristics of cellulose
- Blue colour allows differentiation for guarding against migration into critical areas
- Blue colour provides background differentiation for product inspection
- Smooth, absorbent and durable
- Low extractable levels and particle counts
- Economical
- *Chemically compatible with common cleaning and disinfecting solutions

**Not recommended for applications where 100% water is used - material may not be colourfast*

Applications

- Designed for use in ISO Class 5 and higher cleanroom environments
- Ideal for cleaning work surfaces and spill pickup
- General equipment wrap and wipe downs
- Blue work surface mat to assist in visual inspection processes
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

PROPERTIES		UNIT	VALUE	TEST METHOD
Basis Weight		g/m ²	73.4	TAPPI T-410
Caliper		µm	272	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	160	IEST-RP.CC004.4, Sec 7.1.3 / Sec 7.2.2
Particles	≥0.5µm	x10 ³ /cm ²	33	IEST-RP.CC004.4, Sec 7.1.3 / Sec 7.2.1
Sorbency	Capacity	mL/m ²	301	IEST-RP.CC004.4, Sec 9.1 modified / Sec 9.2 modified
	Efficiency	mL/g	4.1	
	Rate	seconds	4	
Non-Volatile Residue	DI Water	g/m ²	0.017	IEST-RP.CC004.4, Sec 8.1.2
	IPA	g/m ²	0.0042	
Ions	Na ⁺	ppm	50	IEST-RP.CC004.4, Sec 8.2.2
	K ⁺	ppm	3.2	
	Ca ⁺⁺	ppm	20	
	Mg ⁺⁺	ppm	3.8	
	Cl ⁻	ppm	23	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
BlueSorb® 750	BS750.0404.40	4x4" (10x10cm)	300	40	Stacked
BlueSorb® 750	BS750.0909.20	9x9" (23x23cm)	300	20	Stacked
BlueSorb® 750	BS750.1212.20	12x12" (30x30cm)	150	20	Stacked



Durx® 670
55% Cellulose / 45% Polyester Nonwoven Cleanroom Wiper

Key Attributes

- 55% cellulose / 45% polyester hydroentangled nonwoven blend
- No binders or other chemical additives

Benefits

- Smooth, highly absorbent and durable
- Low extractable levels and particle counts
- Chemically compatible with common cleaning and disinfecting solutions
- Autoclavable
- Economical

Applications

- Designed for use in ISO Class 5 and higher cleanroom environments
- General purpose wiping applications
- Cleaning of lab equipment
- General wiping in component prep, compounding and wash areas
- Applying and removing cleaning and disinfecting solutions
- EC Regulation 1935 (2004) - Food contact compliant
- FDA 21 CFR - Food contact compliant
- Meets AMS 3819D requirements, Class 2, Grade A, Form 1
- Meets BMS 15-5 requirements
- Complies with RoHS

TECHNICAL DATA

PROPERTIES		UNIT	VALUE	TEST METHOD
Basis Weight		g/m2	68.0	TAPPI T-410
Caliper		µm	264	TAPPI T-411
Fibers	≥100µm	fibers/cm2	160	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.2 modified
Particles	≥0.5µm	x103/cm2	10	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.1 modified
Sorbency	Capacity	mL/m ²	320	IEST-RP-CC004.4 Sec 9.1 / Sec 9.2 modified
	Efficiency	mL/g	4.7	
	Rate	seconds	2	
Non-Volatile Residue	DI Water	g/m2	0.028	IEST-RP-CC004.4 Sec 8.1.2
	IPA	g/m2	0.0038	
Ions	Na+	ppm	62	IEST-RP-CC004.4 Sec 8.2.2
	K+	ppm	5.9	
	Ca++	ppm	22	
	Mg++	ppm	5.0	
	Cl-	ppm	31	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Durx® 670	DR670040410	4x4" (10x10cm)	1200	10	Stacked
Durx® 670	DR670040440	4x4" (10x10cm)	300	40	Stacked
Durx® 670	DR670070712	7x7" (18x18cm)	300	12	Stacked
Durx® 670	DR670090910	9x9" (23x23cm)	300	10	Stacked
Durx® 670	DR670090920	9x9" (23x23cm)	300	20	Stacked
Durx® 670	DR670121220	12x12" (30x30cm)	150	20	Stacked
Durx® 670	DR670181810	18x18" (45x45cm)	150	10	Stacked
Durx® 670 Roll	DR6703438R	13x15" (34x 38cm)	500	1 (Plastic Core)	Perforated Roll



Durx® 770

55% Cellulose / 45% Polyester Nonwoven Cleanroom Wiper

Key Attributes

- 55% cellulose / 45% polyester hydroentangled nonwoven blend
- Enhanced with an ultra low particle and fiber treatment

Benefits

- Excellent combination of the synthetic polyester strength and cleanliness with the absorbent characteristics of cellulose
- Reduced particle and fiber generation with ultra low particle and fiber treatment
- Smooth, absorbent and durable
- Low extractable levels
- Chemically compatible with common cleaning and disinfecting solutions
- Autoclavable
- Economical

Applications

- Designed for use in ISO Class 5 and higher cleanroom environments
- Facilities manufacturing integrated circuit, printed circuit board and electronic components
- General equipment wrap and wipe downs
- General purpose wiping applications
- Cleaning of lab equipment
- General wiping in component prep, compounding and wash areas
- Applying and removing cleaning and disinfecting solutions

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Durx® 770	DR770040410	4x4" (10x10cm)	1200	10	Stacked
Durx® 770	DR770070712	7x7" (18x18cm)	300	12	Stacked
Durx® 770	DR770090920	9x9" (23x23cm)	300	20	Stacked
Durx® 770	DR770121220	12x12" (30x30cm)	150	20	Stacked
Durx® 770	DR770181810	18x18" (45x45cm)	150	10	Stacked
	Efficiency	mL/g	3.9		
	Rate	seconds	3		
Non-Volatile Residue	DI Water	g/m2	0.10	IEST-RP.CC004.3, Sec 7.1.2	
	IPA	g/m2	0.049		
Ions	Na+	ppm	83	IEST-RP.CC004.3, Sec 7.2.2	
	K+	ppm	9.3		
	Ca++	ppm	31		
	Mg++	ppm	12		
	Cl-	ppm	52		



**WhiteGuard 2 Polycellulose Wipes
Non-folded / C-folded**

Benefits

- Low linting, multipurpose wipes
- Excellent absorbency
- 45% Polyester, 45% Cellulose blend

Usage

- Hard surface dry wipe
- Transfer of product into cleanrooms

Features

- Hydroentangled wipe manufacture
- 68gsm wipe weight

TECHNICAL DATA

NON STERILE CODE	STERILE CODE	DESCRIPTION	SIZE	PACK QTY	BOX QTY	BOX SIZE	WEIGHT
WNWG04005		WhiteGuard 2 Polycellulose Non-Folded Wipes Non-Sterile	127x102mm (5"x4")	100	10 Packs of 100	TBC	TBC
WNWG04009		WhiteGuard 2 Polycellulose Non-Folded Wipes Non-Sterile	230x230mm (9"x9")	100	10 Packs of 100	26x26x32cm	3.54kg
WNWG06009		WhiteGuard 2 Polycellulose Non-Folded Wipes Non-Sterile	230x230mm (9"x9")	300	16 Packs of 300	68x26x49cm	16.5kg
WNWG04012		WhiteGuard 2 Polycellulose Non-Folded Wipes Non-Sterile	300x300mm (12"x12")	100	20 Packs of 100	65x34x35cm	14kg
WNCS93009		WhiteGuard 2 Polycellulose Non-Folded Wipes Non-Sterile	230x230mm (9"x9")	300	8 Packs of 300	50x33x35cm	9.55kg
WNCS93012		WhiteGuard 2 Polycellulose Non-Folded Wipes Non-Sterile	300x300mm (12"x12")	100	17 Packs of 100	57x33x33cm	12kg
	WSWG04009	WhiteGuard 2 Polycellulose Non-Folded Wipes Sterile	230x230mm (9"x9")	100	10 Packs of 100	31x27x37cm	4.25kg
	WSWG06009	WhiteGuard 2 Polycellulose Non-Folded Wipes Sterile	230x230mm (9"x9")	300	8 Packs of 300	52x26x36cm	10kg
	WSWG04012	WhiteGuard 2 Polycellulose Non-Folded Wipes Sterile	300x300mm (12"x12")	100	10 Packs of 100	38x38x38cm	7.85kg
	WSCS93009	WhiteGuard 2 Polycellulose Non-Folded Wipes Sterile	230x230mm (9"x9")	300	8 Packs of 300	50x33x35cm	9.55kg
	WSCS93012	WhiteGuard 2 Polycellulose Non-Folded Wipes Sterile	300x300mm (12"x12")	100	17 Packs of 100	57x33x33cm	12.5kg
	WSVW11009	WhiteGuard 2 Polycellulose C-Folded Wipes Sterile	230x230mm (9"x9")	10 x 10	27 Packs of 10x10	57x29x39cm	11.7kg
	WSVW12012	WhiteGuard 2 Polycellulose C-Folded Wipes Sterile	300x300mm (12"x12")	10 x 10	27 Packs of 10x10	57x33x34xm	10.24kg



WhiteGuard 7 Polycellulose Roll Wipes Non-sterile

Benefits

- Excellent absorbency
- Low linting wipes
- Multipurpose wipes
- Colours
- White
- Blue

Usage

- For use in support areas
- Hard surface dry wipe
- Transfer of product into cleanrooms
- Laboratory applications

Features

- 45% Polyester 55% Cellulose blend;
- 69gsm wipe weight
- Log roll of 400 wipes
- Perforated edges

TECHNICAL DATA

NON STERILE CODE	STERILE CODE	DESCRIPTION	SIZE	PACK QTY	BOX QTY	BOX SIZE	WEIGHT
WNPW81010		Polycellulose Roll Wipes Non-sterile White	254x381mm	400 sheets/roll	2 x 1 Roll	520x270x300mm	3.21kg
WNPB81010		Polycellulose Roll Wipes Non-sterile Blue	254x381mm	400 sheets/roll	2 x 1 Roll	520x270x300mm	3.21kg



Clino® Carbon
Electrostatically dissipative cloth.

- Reusable cloth
- Electrostatically dissipative
- Autoclavable
- Low particle emission

Surfaces

- For all smooth, water-resistant surfaces

Cloth Material

- Polyester/Carbon, with chain ink

ORDER INFORMATION

PRODUCT	NUMBER	CLOTH WEIGHT	SIZE	PKS UNIT	PKS/BOX
Clino® Carbon	3600098	16g	35x34cm	5pieces	



Clino® Ultra CR
For all smooth surfaces

- Reusable cloth
- Germ reduction of bacteria yeast and mold by PPSC textiles by >99% only with the use of ionized water (test method DGMH 2001, Standart method 14)

Surfaces

- For all non-structured surfaces

Cloth Material

- 80% Polyester, 20% Polyamide with overlocking

ORDER INFORMATION

PRODUCT	NUMBER	CLOTH WEIGHT	SIZE	PKS UNIT	PKS/BOX
Clino® Ultra CR	2660005	28g	31x38cm	5pieces	
Clino® Ultra CR large	2660006	70g	60x60cm	5pieces	

**Clino® One Way**

Disposable cloth for clean room

- Excellent absorption capacity
- High abrasion resistance
- Low particle and fiber shedding

Surfaces

- All smooth surfaces in the semiconductor and pharmaceutical industries

Cloth Material

- Non-woven fabric, cellulose/polyester

ORDER INFORMATION

PRODUCT	NUMBER	CLOTH WEIGHT	SIZE	PKS UNIT	PKS/BOX
Clino® One Way	3600070	3g	23x23cm	300 pieces	8pks



Clino® One Way Premium

Properties

- 100% polyester
- Microfibre filament knit fabric
- Laser cut and sealed edges
- Decontaminated in a cleanroom laundry
- Vacuum-packed twice in PE film in a cleanroom
- Also available as gamma-irradiated version on request

Advantages

- Chemically resistant
- Very low emission of particles, fibres and extractable substances
- Non-abrasive, no scratching of sensitive surfaces
- High and residue-free absorbency and absorption of impurities such as dust and oil-based contaminants

Applications

- Effective removal of particulate and organic contamination
- Very suitable for wiping highly sensitive surfaces, e.g. LCD or optical surfaces
- For polishing and cleaning of product surfaces, e.g. magnetic heads

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100% PES	
Edge processing			laser cut	
Mass per unit area		g/m ²	210 ± 5	ASTM D3776
				Standard Test Methods for Mass Per Unit Area (Weight) of Fabric
Wipe weight		g/wipe	19.5	ASTM D3776
Thickness		mm	0.38 ± 0.02	ASTM D1777, ISO 9073-2
Absorptive capacity in water		ml/g	n. s.	IEST-RP-CC004.3
(Ai) intrinsic		ml/m ²	305	Section 8.2
(Ae) extrinsic				
Absorbency rate		sec.	< 5	IEST-RP-CC004.3 Section 8.2
NVR	IPA based	g/m ²	< 0.8	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	< 1.5	Section 7
Particulate residues	> 0.5 µm	particles/wipe	100	IEST-RP-CC003.4
Fibre residues	≥ 100 µm	fibres/m ²	< 500	IEST-RP-CC003.4
Organic substances		µg/g	n. d.	IEST-RP-CC004.3Section 7
Ionic residues	Chloride (ClO ₂ ⁻)	µg/g	< 4	IEST-RP-CC004.3Section 7
	Nitrate (NO ₃ ⁻)	µg/g	< 4	
	Sodium (Na ⁺)	µg/g	< 4	
	Sulphate (SO ₄ ²⁻)	µg/g	< 4	
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	PU PER CARTON	ART. NO.
12"x12"	150 pieces	900 pieces	55430



Extreme XCHP

The non-sterile premium cleanroom wipe made of polyester. , Best materials and processing for perfect cleaning and disinfection results.

- Very high absorbency
- Material and processing in the premium range ensure a very low particle emission
- Very soft, high abrasion resistance
- Washed and packed in ISO 4 clean room

Surfaces

- All smooth surfaces in cleanrooms

Cloth Material

- Polyester continuous filament, knitted, two-layer structure ultrasonically welded
- Edges laser cut and sealed

ORDER INFORMATION

PRODUCT	NUMBER	CLOTH HEIGHT	SIZE	PKS UNIT	PKS/BOX
Extreme XCPP	3600100	241GSM	30x30cm	100 pieces	4



Vipers R35

- Material: Polyethylene (50% Rayon, 50% Polyester)
- Format: 25 x 25 cm
- Thickness: 0,22 mm
- Basic weight: 115 g/m²
- ISO 6
- Edge cut: laser cut
- Absorption capacity: 300 ml/m²
- Bag with 100 wipes



Vipers PC68 Premium

- Material: 45% Polyester, 55% Cellulose
- Format: 23 x 23 cm
- Thickness: 0,32 mm
- Basic weight: 68 g/m²
- ISO 6
- Edge cut: laser cut
- Absorption capacity: 288 ml/m²
- Bag with 300 wipes



Vipers PC68

- Material: 45% Polyester, 55% Cellulose
- Format: 10 x 10 cm, 23 x 23 cm, 30 x 30 cm
- Thickness: 0,3 mm
- Basic weight: 68 g/m²
- ISO 6
- Edge cut: laser cut
- Absorption capacity: 288 ml/m²
- Bag with 1200, 300, 150 wipes



Labx® 170

80% Abaca / 20% Wood Pulp Nonwoven Cleanroom Wiper

Key Attributes

- 80% abaca (manila hemp) / 20% wood pulp nonwoven
- Engineered for light weight and low linting
- Meets government specification #AA-50177, Type 1, Class 4 Heavy Weight, Wet Strength

Benefits

- Low linting
- Lightweight
- Nonabrasive
- Low extractables
- High absorbency to weight ratio

Environmental

- Complies with RoHS

Applications

- Lightweight wafer separator material
- Absorbent, low linting work surface material
- Tray liner and wet bench material
- Wiping of biomedical devices
- Cleaning of lab equipment
- Compatible with ISO Class 6 (Class 1000) cleanroom applications and above

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	17.6	TAPPI T-410
Caliper		µm	70.8	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.39	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.2 modified
Particles	≥0.5µm	x103/cm ²	23	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.1 modified
Sorbency	Capacity	mL/m ²	97.9	IEST-RP-CC004.4 Sec 9.1 / Sec 9.2 modified
	Efficiency	mL/g	5.6	
	Rate	seconds	60	
Non-Volatile Residue	DI Water	g/m ²	0.016	IEST-RP-CC004.4 Sec 8.1.2
	IPA	g/m ²	0.0022	
Ions	Na+	ppm	240	IEST-RP-CC004.4 Sec 8.2.2
	K+	ppm	7.0	
	Ca++	ppm	17	
	Mg++	ppm	6.6	
	Cl-	ppm	36	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / CS
Labx® 170	LB170.0909.40	9x9" (23x23cm)	500	40
Labx® 170	LB170.1212.20	12x12" (30x30cm)	500	20
Labx® 170	LB170.1818.10	18x18" (45x45cm)	500	10



Lensx® 90

70% Rayon / 30% Hemp Nonwoven Cleanroom Wiper

Key Attributes

- 70% rayon / 30% manila hemp nonwoven
 - Engineered for extreme softness
 - Silicone free
 - Meets government specification #AA-50177, Type 1, Class 1
- Burst Strength (PSI/10 sheets dry)51
Acidity (pH value)5.6
Ash Percent (average)0.42

Benefits

- Extreme softness
- Nonabrasive
- Low extractables

Environmental

- Complies with RoHS

Applications

- Cleaning optical and other sensitive surfaces
- Absorbent, low linting work surface material
- Compatible with ISO Class 6 (Class 1000) cleanroom applications and above

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	9.2	TAPPI T-410
Caliper		µm	47.5	TAPPI T-411
Fibers	≥100µm	fibers/cm2	2.1	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.2 modified
Particles	≥0.5µm	x103/cm2	2.3	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.1 modified
Sorbency	Capacity	mL/m ²	105	IEST-RP-CC004.4 Sec 9.1 / Sec 9.2 modified
	Efficiency	mL/g	11.0	
	Rate	seconds	NA	
Non-Volatile Residue	DI Water	g/m2	0.042	IEST-RP-CC004.4 Sec 8.1.2
	IPA	g/m2	0.00026	
Ions	Na+	ppm	210	IEST-RP-CC004.4 Sec 8.2.2
	K+	ppm	5.2	
	Ca++	ppm	31	
	Mg++	ppm	9.1	
	Cl-	ppm	220	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / CS
Lensx® 90	LN90.0406.24	4x6" (10x15cm)	1000	24
Lensx® 90	LN90.0909.16	9x9" (23x23cm)	1000	16
Lensx® 90	LN90.1212.4	12x12" (30x30cm)	1000	4
Lensx® 90	LN9024365	24x36" (60x90cm)	1000	5



MicroFirst® LP
58% Polyester / 42% Lyocell Nonwoven
Cleanroom Wiper

Key Attributes

- 58% polyester / 42% lyocell hydroentangled nonwoven blend
- No binders or other chemical additives

Benefits

- Excellent combination of the synthetic polyester strength and cleanliness with the absorbent characteristics of lyocell
- Exceptionally pure and absorbent
- Very low particle and fiber generation
- Very durable with high wet strength
- Soft texture
- Chemically compatible with common cleaning and disinfecting solutions
- Autoclavable

Applications

- Designed for use in ISO Class 5 and higher cleanroom environments
- Polishing and cleaning metals, plastics, epoxy surfaces
- Cleaning in etch and photolithography environment
- Ideal for wiping delicate surfaces and sensitive components
- Spill control
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	70.2	TAPPI T-410
Caliper		µm	299	TAPPI T-411
Fibers	≥100µm	fibers/cm2	20	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	4.1	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	377	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	5.4	
	Rate	seconds	3	
Non-Volatile Residue	DI Water	g/m2	0.021	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m2	0.0092	
Ions	Na+	ppm	13	IEST-RP.CC004.3, Sec 7.2.2
	K+	ppm	1.2	
	Ca++	ppm	20	
	Mg++	ppm	5.8	
	Cl-	ppm	11	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
MicroFirst LP®	MFLP.0909.12	9x9" (23x23cm)	150	12	Stacked
MicroFirst LP®	MFLP.1212.18	12x12" (30x30cm)	100	18	Stacked



MicroFirst®

45% Cellulose / 55% Polyester Nonwoven Cleanroom Wiper

Key Attributes

- 45% cellulose / 55% polyester hydroentangled nonwoven blend
- Apertured for increased absorbency to weight ratio
- No binders or other chemical additives

Benefits

- Excellent combination of the synthetic polyester strength and cleanliness with the absorbent characteristics of cellulose
- Apertured for increased absorbency and increased surface texture for improved cleaning efficiency
- Low extractable levels and particle and fiber counts
- Very durable with high wet strength
- Chemically compatible with common cleaning and disinfecting solutions
- Autoclavable
- Economical

Environmental

- Lightweight design helps reduce landfill waste impact compared to heavier weight nonwovens

Applications

- Designed for use in ISO Class 5 and higher cleanroom environments
- Polishing and cleaning metals, plastics, epoxy surfaces
- General purpose wiping applications and spill control
- Cleaning of lab equipment
- General wiping in component prep, compounding and wash areas
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	56.3	TAPPI T-410
Caliper		µm	248	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	89	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm ²	8.5	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	256	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	4.5	
	Rate	seconds	3	
Non-Volatile Residue	DI Water	g/m ²	0.023	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0044	
Ions	Na+	ppm	15	IEST-RP.CC004.3, Sec 7.2.2
	K+	ppm	2.6	
	Ca++	ppm	18	
	Mg++	ppm	5.4	
	Cl-	ppm	12	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
MicroFirst®	MF.0909.20	9x9" (23x23cm)	150	20	Stacked
MicroFirst®	MF.1212.20	12x12" (30x30cm)	100	20	Stacked



Polx® Nonwoven
100% Polyester Nonwoven Cleanroom Wiper

Key Attributes

- 100% polyester hydroentangled nonwoven treated with proprietary process
- No cellulose components, 100% synthetic
- Low fibre and particle generation
- Extremely soft and nonabrasive

Benefits

- Exceptional cleanliness
- Chemically compatible with commonly used disinfectants and sporicides
- Prevents abrasion with its extremely soft and pliable surface
- Works well with IPA and other solvents
- Lot to lot traceability
- Autoclavable

Applications

- Designed for use in ISO Class 5 and higher cleanroom environments
- Gentle enough for wiping and polishing soft metal and glass surfaces
- Cleaning of optics and other sensitive surfaces
- Cleaning and absorbing oil and grease
- Wrapping delicate parts for protection

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	55.7	TAPPI T-410
Caliper		µm	251	TAPPI T-411
Fibers	≥100µm	fibers/cm2	7.4	IEST-RP-CC004.4, Sec 7.1.3 / Sec 7.2.2 modified
Particles	≥0.5µm	x103/cm2	0.34	IEST-RP-CC004.4, Sec 7.1.3 / Sec 7.2.1 modified
Sorbency	Capacity	mL/m ²	261	IEST-RP-CC004.4, Sec 9.1 modified / Sec 9.2 modified
	Efficiency	mL/g	4.7	
	Rate	seconds	2	
Non-Volatile Residue	DI Water	g/m2	0.0020	IEST-RP-CC004.4, Sec 8.1.2
	IPA	g/m2	0.0028	
Ions	Na+	ppm	8.9	IEST-RP-CC004.4, Sec 8.2.2
	K+	ppm	1.2	
	Ca++	ppm	21	
	Mg++	ppm	5.0	
	Cl-	ppm	11	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Polx® Nonwoven	PNW040440	4x4" (10x10cm)	250	40	Stacked
Polx® Nonwoven	PNW090920	9x9" (23x23cm)	250	20	Stacked
Polx® Nonwoven	PNW121220	12x12" (30x30cm)	150	20	Stacked



Pro-Wipe® OS

Oil Absorbent Nonwoven Wiper 100% Polypropylene Meltblown

Key Attributes

- 100% polypropylene
- Meltblown nonwoven
- High loft and soft texture
- No binders, surfactants or other chemical additives
- Specifically designed to absorb oil and repel water
- Low linting

Benefits

- Engineered for oil absorption and retention
- Very low particle and fiber generation
- Autoclavable
- Excellent resistance to acids and bases
- Surfactant free and extremely low non-volatile residues

Applications

- Oil absorbent low particle and fiber work surface material
- Designed for removal of etchants, acids, and other chemical spills
- Removes and retains oil and hydrocarbon based fluids
- Ideal for tray lining and other lab applications
- Excellent for use in capsule drying and polishing
- FDA 21 CFR - Food contact compliant

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	79.6	TAPPI T410
Fibers	≥ 100µm	fibers/cm ²	0.88	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Water Absorbency		%	623	Berkshire Procedure QA-1041
Extractable Matter	DI water	%	0.0020	IEST-RP.CC004.3, Sec 7.1.2
	IPA	%	0.020	
Tensile Strength	MD	lb/in	9.9	ASTM D5035
	CD	lb/in	7.4	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Pro-Wipe® OS	PWOS12.12	12x12" (30x30cm)	100	12	Flat Pack



ValuClean® Plus
50% Rayon / 50% Polyester Nonwoven Cleanroom Wiper

Key Attributes

- 50% rayon / 50% polyester hydroentangled nonwoven blend
- No binders or other chemical additives

Benefits

- Excellent combination of the synthetic polyester strength and cleanliness with the absorbent characteristics of rayon
- Smooth with excellent strength and durability
- High absorbency compared to typical cellulose / polyester nonwoven wipers can reduce actual wiper usage in spill or solution removal applications
- Low extractable levels and particle counts
- Chemically compatible with common cleaning and disinfecting solutions
- Economical

Environmental

- High absorbency with low basis weight reduces landfill waste impact when compared with market leading cellulose/polyester wipers

Applications

- Designed for use in ISO Class 5 and higher cleanroom environments
- General wipe downs
- Cleaning of lab equipment
- General wiping in component prep, compounding and wash areas
- Applying and removing cleaning and disinfecting solutions and spill pick up
- Not suitable for autoclaving

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	62.9	TAPPI T-410
Caliper		µm	299	TAPPI T-411
Fibers	≥100µm	fibers/cm2	33	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	7.8	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m2	439	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	7.0	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m2	0.022	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m2	0.0019	
Ions	Na+	ppm	140	IEST-RP.CC004.3, Sec 7.2.2
	K+	ppm	7.5	
	Ca++	ppm	29	
	Mg++	ppm	5.9	
	Cl-	ppm	12	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / CS	STYLE
ValuClean® Plus	VCLP.0909.20	9x9" (23x23cm)	300	20	Stacked
ValuClean® Plus	VCLP.1212.20	12x12" (30x30cm)	150	20	Stacked



ProjX® 700

55% Cellulose / 45% Polyester Nonwoven Cleanroom Wiper

Key Attributes

- 55% cellulose / 45% polyester hydroentangled nonwoven blend
- Creped for increased absorbency to weight ratio
- No binders or other chemical additives

Benefits

- Excellent combination of the synthetic polyester strength and cleanliness with the absorbent characteristics of cellulose
- Creped design for increased absorbency characteristics
- Low extractable levels
- Durable with good wet strength
- Chemically compatible with common cleaning and disinfecting solutions
- Autoclavable
- Economical
- Environmental
- Lightweight design helps reduce landfill waste impact compared to heavier weight nonwovens

Applications

- Designed for use in ISO Class 5 and higher cleanroom environments
- Excellent choice for entry level cleanroom construction wiping needs
- General purpose wiping and spill control
- General wiping in component prep, compounding and wash areas
- Low NVR's make good for general wiping and cleaning in biomedical environments
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	52.1	TAPPI T-410
Caliper		µm	223	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	210	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm ²	40	IEST-RP.CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	295	IEST-RP.CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	5.9	
	Rate	seconds	2.1	
Non-Volatile Residue	DI Water	g/m ²	0.025	IEST-RP.CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0038	
Ions	Na+	ppm	17	IEST-RP.CC004.3, Sec 7.2.2
	K+	ppm	2.7	
	Ca++	ppm	18	
	Mg++	ppm	4.9	
	Cl-	ppm	9.7	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
ProjX® 700	PJ700.0909.20	9x9" (23x23cm)	200	20	Stacked
ProjX® 700	PJ700.1212.20	12x12" (30x30cm)	150	20	Stacked



Pro-Wipe® 750

Polypropylene / Cellulose Composite Nonwoven Cleanroom Wiper

Key Attributes

- 60% polypropylene / 40% cellulose nonwoven
- Multi-layer composite with cellulose layer thermally bonded between the two polypropylene outer layers
- High loft and soft texture
- No binders or other chemical additives

Benefits

- Engineered for compatibility with solvents
- Extremely durable and pure with very low particle and fiber generation
- High absorbency to weight ratio may reduce cost in use compared to similar weight nonwovens
- Chemically compatible with common cleaning and disinfecting solutions

Autoclavable

Environmental

- High absorbency to weight ratio may reduce wiper usage and landfill waste pounds compared to similar weight nonwovens

Applications

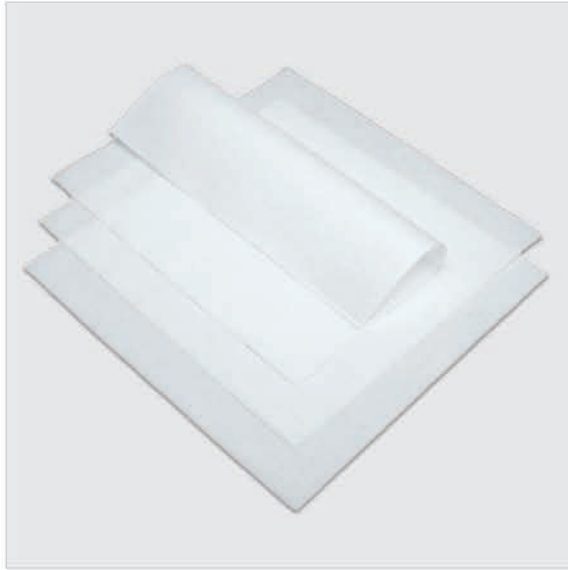
- Designed for use in ISO Class 5 and higher cleanroom environments
- Excellent choice for general spill pick up and cleaning surfaces
- Designed for removal of etchants, and other chemical spills
- Excellent for cleaning scratch sensitive surfaces
- Ideal for tray lining and other lab applications
- General wiping in component prep, compounding and wash areas
- Excellent for general wiping and cleaning in biomedical environments
- FDA 21 CFR - Food contact compliant

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	69.5	TAPPI T-410
Caliper		µm	335	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	3.7	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x10 ³ /cm ²	5.2	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	480	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modi-
	Efficiency	mL/g	6.9	
	Rate	seconds	2	
Non-Volatile Residue	DI Water	g/m ²	0.065	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m ²	0.035	
Ions	Na+	ppm	150	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	35	
	Ca ⁺⁺	ppm	4.5	
	Mg ⁺⁺	ppm	1.5	
	Cl-	ppm	110	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Pro-Wipe® 750	PW750090920	9x9" (23x23cm)	150	20	Stacked
Pro-Wipe® 750	PW750121220	12x12" (30x30cm)	75	20	Stacked



Pro-Wipe® 880

100% Polypropylene Multi-Layer Nonwoven Cleanroom Wiper

Key Attributes

- 100% polypropylene nonwoven
- Multiple layers of polypropylene thermally bonded in a quilted construction
- High loft and soft texture

Benefits

- Engineered for compatibility with acid solvents
- Extremely durable and pure with very low particle and fiber generation
- Chemically compatible with common cleaning and disinfecting solutions
- Autoclavable

Environmental

- Complies with RoHS

Applications

- Designed for use in ISO Class 5 and higher cleanroom environments
- Absorbent low particle and fiber work surface material
- Ideal for equipment cleaning and spill pick up
- Designed for removal of etchants, acids, and other chemical spills
- Excellent for cleaning scratch sensitive surfaces
- Ideal for tray lining and other lab applications
- General wiping in component prep, compounding and wash areas
- Excellent for general wiping and cleaning in biomedical environments
- Excellent for use in capsule cleaning applications
- FDA 21 CFR - Food contact compliant

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	67.7	TAPPI T-410
Caliper		µm	292	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.48	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm ²	0.86	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	335	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modi-
	Efficiency	mL/g	4.9	
	Rate	seconds	3	
Non-Volatile Residue	DI Water	g/m ²	0.15	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m ²	0.086	
Ions	Na+	ppm	3.4	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	91	
	Ca ⁺⁺	ppm	<0.0041	
	Mg ⁺⁺	ppm	0.0031	
	Cl-	ppm	0.50	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / CS	STYLE
Pro-Wipe® 880	PW880.0810.12	8x10" (20x25cm)	100	12	Stacked
Pro-Wipe® 880	PW880.1212.12	12x12" (30x30cm)	100	12	Stacked



Pro-Wipe® AP

All-Purpose Low Linting Wiper 50% Rayon/50% Polyester

Key Attributes

- 50% Rayon 50% Polyester
- No binders or other chemical additives
- Smooth and soft with high strength and durability
- Highly absorbent

Benefits

- Chemically compatible with common cleaning and disinfecting solutions
- Low linting and abrasion resistant
- Autoclavable
- Absorbs water and oil based solutions

Applications

- Spill pick up
- General cleaning of manufacturing equipment and bench top surfaces
- Cleaning of lab equipment
- Surface prep

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	62.9	TAPPI T410
Fibers	≥ 100µm	fibers/cm2	33	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Water Absorbency		%	700	IEST-RP-CC004.3, Sec 8.1 modified
Extractable Matter	DI water	%	0.041	IEST-RP-CC004.3, Sec 7.1.2
	IPA	%	0.0032	
Tensile Strength	MD	lb/in	13	ASTM D5035
	CD	lb/in	4.0	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS / ES	STYLE
Pro-Wipe® AP	PWAP09.24	9x9" (23x23cm)	150	24	Flat Pack
Pro-Wipe® AP	PWAP12.24	12x12" (30x30cm)	100	24	Flat Pack
Pro-Wipe® AP	PWAP.12130F.20	12x13" (30x33cm)	50	20	Quarter Folded
Pro-Wipe® AP	PWAP.PR0915.4	9x15" (23x38cm)	250	4	Perforated Roll



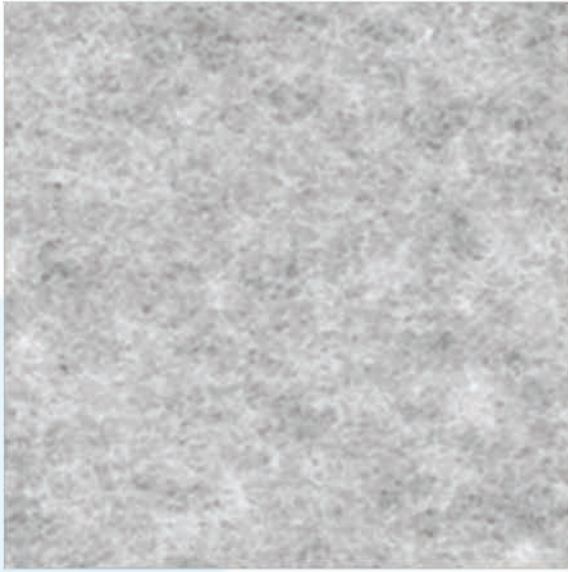
Vipers VPP36

- Material: Polypropylene
- Format: 23 x 28 cm
- Thickness: 0,24 mm
- Basic weight: 36 g/m²
- ISO 5
- GMP C/D
- Absorption capacity: 174 ml/m²
- Bag with 30 wipes



Vipers VPC68

- Material: 45% Polyester, 55% Cellulose
- Format: 23 x 23 cm
- Thickness: 0,3 mm
- Basic weight: 68 g/m²
- ISO 5
- GMP C/D
- Edge cut: laser cut
- Absorption capacity: 288 ml/m²
- Bag with 50 wipes



Series 200

Properties

- 100% cellulose (hemp/cellulose blend)
- Hydroentangled non-woven fabric
- Double bag packing

Advantages

- High absorptive capacity in relation to the mass per unit area
- Electrostatic neutral
- Cost-effective

Applications

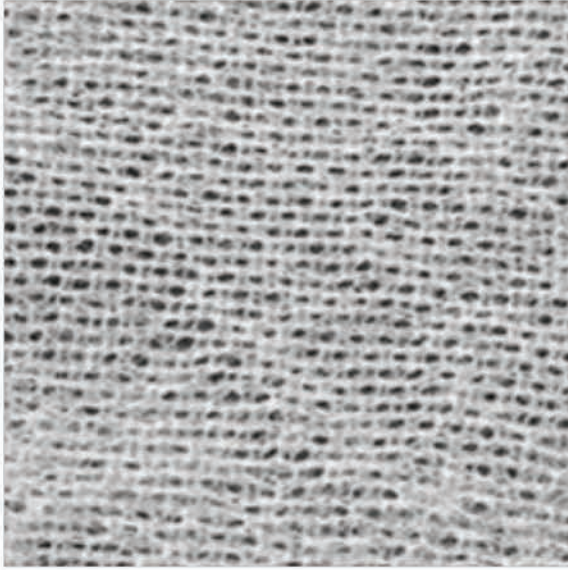
- Ideal for cleaning uncritical areas
- Wiping operations at the workstation
- Suitable as an absorbent layer between two surfaces

TECHNICAL DATA

PROPERTIES		UNITS	VALUE
Material			100% Cellulose blend (hemp/cellulose)
Edge processing			cold cut
Mass per unit area		g/m ²	17
Absorptive capacity			
(Ai) intrinsic		ml/g	9.5
(Ae) extrinsic		ml/m ²	167
NVR	IPA based	g/m ²	0.016
Non-volatile residues	DI water based	g/m ²	0.024
Particle residues	0.5 – ≤ 5.0 µm	million/m ²	17
	> 5.0 – ≤ 100 µm	million/m ²	0.09
Fibre residues	> 100 µm	fibres/m ²	1080
Ionic residues	Sodium (Na ⁺)	ppm	126
	Chloride (ClO ₂ ⁻)	ppm	46
Organic contaminants	silicone oil		n. s.
	amides		n. s.
	D-n-octylphthalate (DOP)		n. s.

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
6" x 6"	500 pieces	55200 0606
9" x 9"	500 pieces	55200 0909
12" x 12"	500 pieces	55200 1212
18" x 18"	500 pieces	55200 1818



Bemcot™ M-3 II

Properties

- 100% cellulose
- Non-woven fabric (Bemliese™)
- Free from adhesives and binders
- 4-folded
- Packed in a PE bag

Advantages

- High absorbency in relation to the mass per unit area
- Especially low lint
- Electrostatic neutral
- Low particle abrasion
- Antistatic
- Heat resistant (min. 250°C)
- Biologically degradable

Applications

- Cleaning of scratch-sensitive surfaces
- Ideally suited for CD and DVD production
- Damp wiping with solvents

TECHNICAL DATA

PROPERTIES		UNITS	VALUE	TEST METHOD
Material			100% cotton	
Edge processing			cold cut	
Mass per unit area		g/m ²	30	
Absorbency time		Second	1	IEST-RP-CC004.3
Absorptive capacity				IEST-RP-CC004.3
(Ai) Intrinsic		ml/g	9.7	
(Ae) extrinsic		ml/m ²	288	
NVR	IPA based	g/m ²	0.006	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.06	IEST-RP-CC004.3
Particle residues	≥ 0.5 µm	million/m ²	110	Section 6.1.3 Biaxial Shake Test IEST-RP-CC004.3
Fibre residues	> 100 µm	fibres/m ²	12	Section 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	49	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	1	Section 7.2.2.1
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
10" x 10"	100 pieces	52302M3



Series 300

Properties

- 45% polyester / 55% cellulose
- Hydro-entangled non-woven fabric
- Medium particle and fibre emission
- Relatively abrasion resistant
- Good absorptive capacity
- Also available in rolls
- Double bag packaging

Advantages

- Good chemical compatibility with different solvents and cleaning agents
- Multipurpose
- Cost effective

Applications

- All purpose wipe
- Absorption of liquids and spills
- Suitable for cleaning tools
- Workplace cleaning – especially for smooth surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			45% PES / 55% CEL	
Edge processing			cold cut	
Mass per unit area		g/m2	68	
Thickness		mils	12	
		mm	0.30	
Absorptive capacity				TEST METHOD
(Ai) intrinsic		ml/g	6.7	TEST METHOD
(Ae) extrinsic		ml/m2	396	TEST METHOD
NVR	IPA based	g/m2	0.028	TEST METHOD
Non-volatile residues	DI water based	g/m2	0.038	TEST METHOD
Particulate residues	0.5 - < 5.0 µm	x 106/m2	140	TEST METHOD
	> 5.0 - ≤ 100 µm	x 106/m2	9.9	Section 6.1.3 Biaxial Shake Test
Fibre residues	> 100 µm	fibres/m2	154,778	TEST METHOD
				Section 6.2.2.2
Ionic residues	Sodium (Na+)	ppm	10.3	TEST METHOD
	Chloride (ClO2-)	ppm	42	Section 7.2.2.1
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
4"x4"	1200 pieces	55300 0404
6"x6"	300 pieces	55300 0606
9"x9"	300 pieces	55300 0909
12"x12"	150 pieces	55300 1212
18"x18"	75 pieces	55300 1818



Series 301

Properties

- 45% polyester / 55% cellulose
- Hydro-entangled non-woven fabric
- Medium particle and fibre emission
- Relatively abrasion resistant
- Good absorptive capacity
- Also available in rolls
- Double bag packing

Advantages

- Good chemical compatibility with different solvents and cleaning agents
- Versatile
- Inexpensive

Applications

- All-purpose wipe
- Absorption of liquids and spills
- Also suitable for cleaning tools
- Workplace cleaning – especially for smooth surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100% PES	
Edge processing			laser cut	
Mass per unit area		± 10 g/m ²	250	
Thickness		mils	n.s.	
		mm	n.s.	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	2.1	
(Ae) extrinsic		ml/m ²	460	
Absorbency rate		sec	< 5	IEST-RP-CC004.3
NVR	IPA based	µg/cm ²	0.05	IEST-RP-CC004.3
Non-volatile residues	DI water based	µg/cm ²	0.01	
Particulate residues	> 0.5 µm	x 10 ⁶ /m ²	8	IEST-RP-CC004.3
				Section 6.2.1
Fibre residues	≥ 100 µm	count/m ²	190	IEST-RP-CC004.3
Ionic residues	Ammonium (NH ₄ ⁺)	µg/g	0.50	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	µg/g	0.80	
	Nitrate (NO ₃ ⁻)	µg/g	0.80	
	Potassium (K ⁺)	µg/g	0.20	
	Sodium (Na ⁺)	µg/g	0.60	
	Sulphate (SO ₄ ²⁻)	µg/g	0.30	
Organic contaminants	Silicone oil		n. d.	by FTIR spectrometer
	Amides		n. d.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. d.	



Series 301-I0

Properties

- 45% polyester / 55% cellulose
- Hydro-entangled non-woven fabric
- Medium particle and fibre emission
- Relatively abrasion resistant
- Good absorptive capacity
- Double packed in PE-bag

Advantages

- Good chemical compatibility with different solvents and cleaning agents

- Versatile
- Inexpensive

Applications

- All-purpose wipe
- Absorbency of liquids and spills
- Also suitable for cleaning tools
- Workplace cleaning – especially for smooth surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			45% PES / 55% CEL	
Edge processing			cold cut	
Mass per unit area		± 10 g/m ²	68	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	n. s.	
(Ae) extrinsic		ml/m ²	330	
NVR	IPA based	g/m ²	0.020	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.035	
Particulate residues	≥ 0.5 µm	x 10 ⁶ /m ²	90	IEST-RP-CC004.3Section 6.2.1
Fibre residues	≥ 100 µm	count/cm ²	880	IEST-RP-CC004.3 Section 6.2.2.2
Ionic residues	Chloride (ClO ₂ ⁻)	µg/g	50	IEST-RP-CC004.3 m
	Potassium (K ⁺)	µg/g	5	
	Sodium (Na ⁺)	µg/g	200	
	Sulphate (SO ₄ ²⁻)	µg/g	600	
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9"x9"	300 pieces	55301-I0 0909
12"x12"	150 pieces	55301-I0 1212
18"x18"	75 pieces	55301-I0 1818



Series 302

Properties

- 45% polyester / 55% cellulose
- Hydro-entangled non-woven fabric
- Low particle and fibre emission
- Relatively abrasion resistant
- Good absorptive capacity
- Double bag packing

Advantages

- Good chemical compatibility with different solvents and cleaning agents
- One of the purest polyester-cellulose non-woven wipes
- Multipurpose
- Available validated sterile

Applications

- All-purpose wipe partly also for more sensitive areas
- Absorbency of liquids and spills
- Also for the cleaning of (particulate) more critical areas (when pure polyester wipes cannot be used)
- Workplace cleaning – especially for smooth surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			45% PES / 55% CEL	
Edge processing			cold cut	
Mass per unit area		g/m ²	68	
Thickness		mm	0.30	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	5.1	
(Ae) extrinsic		ml/m ²	30.10	
NVR	IPA based	g/m ²	0.073	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.097	
Particulate residues	0.5 – < 5.0 µm	x 10 ⁶ /m ²	28.3	IEST-RP-CC004.3
	> 5.0 – ≤ 100 µm	x 10 ⁶ /m ²	1.2	Section 6.1.3 Biaxial Shake Test
Fibre residues	> 100 µm	fibres/cm ²	14.2	IEST-RP-CC004.3
				Section 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	87	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	4.2	Section 7.2.2.1
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
4"x4"	1200 pieces	55302 0404
9"x9"	300 pieces	55302 0909
12"x12"	150 pieces	55302 1212
18"x18"	75 pieces	55302 1818



Series 303

Properties

- 45% polyester / 55% cellulose
- Hydro-entangled non-woven fabric
- Low particle and fibre emission
- Relatively abrasion resistant
- Special twill-textured surface
- Good absorptive capacity
- Double bag packing
- Gamma irradiated available

Advantages

- Good chemical compatibility with different solvents and cleaning agents
- Multipurpose
- Can also absorb slightly coarser impurities due to the special surface, without damaging the surface to be cleaned.
- Cost-effective
- Available as validated sterile version

Applications

- All-purpose wipe
- Absorbency of liquids and spills
- Suitable for cleaning tools
- Workplace cleaning – especially for smooth surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			45% PES / 55% CEL	
Edge processing			cold cut	
Mass per unit area		g/m ²	68	
Thickness		mils	19	
		mm	0.1	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	4.9	
(Ae) extrinsic		ml/m ²	328	
NVR	IPA based	g/m ²	0.020	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.016	
Particulate residues	0.5 - < 5.0 µm	x 10 ⁶ /m ²	30.10	IEST-RP-CC004.3
	> 5.0 - ≤ 100 µm	x 10 ⁶ /m ²	15.1	Section 6.1.3 Biaxial Shake Test
Fibre residues	> 100 µm	fibres/m ²	111	IEST-RP-CC004.3
				Section 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	21.2	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	30	Section 7.2.2.1
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
4"x4"	1200 pieces	55303 0404
6"x6"	300 pieces	55303 0606
9"x9"	300 pieces	55303 0909
12"x12"	150 pieces	55303 1212



Series 304

Properties

- 45% polyester / 55% cellulose
- Hydro-entangled non-woven fabric
- Medium particle and fibre emission
- Relatively abrasion resistant
- Dyed blue
- Good absorptive capacity
- Double bag packaging

Advantages

- Good chemical compatibility with different solvents and cleaning agents
- The blue dyeing makes it possible to see where a liquid (chemical) has spread
- Multipurpose
- Inexpensive

Applications

- All-purpose wipe
- Absorbency of liquids and oily spills
- Also suitable for cleaning tools
- Workplace cleaning – especially for smooth surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			45% PES / 55% CEL	
Edge processing			cold cut	
Mass per unit area		g/m ²	68	
Thickness		mm	0.30	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	5.2	
(Ae) extrinsic		ml/m ²	9.12	
NVR	IPA based	g/m ²	0.221	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.101	
Particulate residues	0.5 - < 5.0 µm	x 10 ⁶ /m ²	13.9	IEST-RP-CC004.3
	> 5.0 - ≤ 100 µm	x 10 ⁶ /m ²	13.1	Section 6.1.3 Biaxial Shake Test
Fibre residues	> 100 µm	fibres/cm ²	8.6	IEST-RP-CC004.3
				Section 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	42	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	27.1	Section 7.2.2.1
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
4"x4"	1200 pieces	55304-10404
9"x9"	300 pieces	55304-10909
12"x12"	150 pieces	55304-11212



Series 305

Properties

- 51% cellulose, 49% polyester
- Hydro-entangled non-woven fabric
- Low particle and fibre emission
- Relatively abrasion resistant
- Good absorptive capacity
- Structured surface increases particle removal
- Double bag packaging

Advantages

- Lower particle release than some other non-woven wipes
- Thick, voluminous, three-dimensional structure removes persistent residues on surfaces
- Good chemical compatibility with different solvents and cleaning agents

Applications

- Ideal for absorbing aqueous spills and for applying solutions
- Wiping processes at the workstation
- Life science, laboratory and pharmacy
- Manufacture of medical devices

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			49% PES / 51% CEL	
Edge processing			cold cut	
Mass per unit area		g/m ²	61	
Thickness		mils	20	
		mm	0.51	
Absorptive capacity				TEST METHOD
(Ai) intrinsic		ml/g	7.7	TEST METHOD
(Ae) extrinsic		ml/m ²	444	TEST METHOD
Absorbency rate		second	n. s.	TEST METHOD
NVR	IPA based	g/m ²	0.012	TEST METHOD
Non-volatile residues	DI water based	g/m ²	0.023	TEST METHOD
Particle residues	0.5 - < 5.0 µm	x 10 ⁶ /m ²	4.4	TEST METHOD
	> 5.0 - ≤ 100 µm	x 10 ⁶ /m ²	4.9	Section 6.1.3 Biaxial Shake Test
Fibre residues	> 100 µm	fibres/m ²	128	TEST METHOD
				Section 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	17	TEST METHOD
	Chloride (ClO ₂ ⁻)	ppm	18	Section 7.2.2.1
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
4"x4"	200 pieces	55305 0404
9"x9"	200 pieces	55305 0909
12"x12"	100 pieces	55305 1212
18"x18"	50 pieces	55305 1818



Series 309

Properties

- 45% polyester / 55% cellulose
- Hydro-entangled non-woven fabric
- Relatively abrasion resistant
- Good absorption capacity
- Packed in a double bag

Advantages

- Good chemical compatibility with different solvents and cleaning agents
- Versatile in use
- Lighter than Series 301, therefore very cost-effective

Applications

- All-purpose wipe
- Absorbency of liquids and spills
- Suitable for cleaning tools
- Workplace cleaning – especially for smooth surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			45% PES / 55% CEL	
Edge processing			cold cut	
Mass per unit area		g/m ²	54	
Thickness		mm	0.30	
Sorbency capacity		ml/g	6.6	IEST-RP-CC004.3
(Ai) intrinsic		ml/m ²	1.12	
(Ae) extrinsic				
NVR	IPA based	g/m ²	0.030	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.051	
Particle residues	0.5 - < 5.0 µm	x 10 ⁶ /m ²	22.4	IEST-RP-CC004.3
	> 5.0 - ≤ 100 µm	x 10 ⁶ /m ²	8.5	Section 6.1.3 Biaxial Shake Test
Fibre residues	> 100 µm	fibres/m ²	31.6	IEST-RP-CC004.3
				Section 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	96	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	6.3	Section 7.2.2.1
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9"x9"	300 pieces	55309 0909
18"x18"	75 pieces	55309 1818



Gamma Wipe® 67
Sterile Polyester / Cellulose Nonwoven Wiper

Key Attributes

- 55% cellulose / 45% polyester hydroentangled nonwoven
- No secondary binders
- Available in two sizes: 9x9" and 12x12"
- Gamma irradiated and sterile validated to a 10⁻⁶ Sterility Assurance Level per AAMI guidelines
- Header style packaging with Package Integrity testing
- Lot number on each pack
- Certificate of Sterility with each case and available on the web by lot number 24/7. Details: Expiration Date, Radiation Dosage, Lot Information, Meets cGMP requirements for traceability

Benefits

- Excellent combination of the synthetic polyester strength and cleanliness with the absorbent characteristics of cellulose.
- Smooth, highly absorbent and durable with low extractable levels
- Economical
- Chemically compatible with common cleaning and disinfecting solutions including isopropyl alcohol, phenols, bleaches and quarternary ammonium compounds

Applications

- Designed for use in ISO Class 5 and higher sterile environments and USP <797> applications
- Designed for cleaning sterile surfaces and equipment during aseptic processing
- General wiping in component prep, compounding and wash areas
- General wipedowns in sterile gowning rooms
- Applying and removing cleaning and disinfecting solutions
- Life science, laboratory and pharmacy
- Manufacture of medical devices

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	68.0	TAPPI T-410
Caliper		µm	264	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	160	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm ²	10	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	320	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	4.7	
	Rate	seconds	2	
Non-Volatile Residue	DI Water	g/m ²	0.028	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0038	
Ions	Na+	ppm	62	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	5.9	
	Ca++	ppm	22	
	Mg++	ppm	5.0	
	Cl-	ppm	31	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS/INNER BAG	INNER BAGS/CS	PKS/CS	STYLE
Gamma Wipe® 67	GW67ST0980	9x9"(23x23cm)	20	5	16	80	Header Bag
Gamma Wipe® 67	GW67ST25	12x12"(30x30cm)	20	5	5	25	Header Bag
Gamma Wipe® 67	GW67ST60	12x12"(30x30cm)	5	10	6	60	Header Bag



Gamma Wipe® 120
Sterile Cleanroom Laundered 100% Polyester Knit wiper

Key Attributes

- 100% continuous filament polyester knit
- Knife cut edge
- Available in two sizes: 9x9" and 12x12"
- Laundered and packaged in Berkshire's ISO Class 4 cleanroom with Lot Number on each pack
- Gamma irradiated and sterile validated to a 10-6 Sterility Assurance Level per AAMI guidelines
- Header style packaging with Package Integrity testing
- Certificate of Sterility with each case and available on the web by lot number 24/7. Details: Expiration Date, Radiation Dosage, Lot Information, Meets cGMP requirements for traceability

Benefits

- Low particles, fibers, ions and extractables
- High absorbency
- High abrasion resistance
- Soft hand and edge for sensitive surfaces
- Chemically compatible with common cleaning and disinfecting solutions including isopropyl alcohol, phenols, bleaches and quarternary ammonium compounds

Applications

- Designed for use in ISO Class 4 and higher sterile environments where microbial exclusion is demanded
- Designed for cleaning sterile surfaces and equipment during aseptic processing
- Excellent for cleaning sterile laminar air flow units, barrier isolators and bio-containment units
- Excellent for cleaning medical devices
- Applying and removing cleaning and disinfecting solutions

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	151	TAPPI T-410
Caliper		µm	521	TAPPI T-411
Fibers	≥100µm	fibers/cm2	0.35	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm2	0.22	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	509	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2
	Efficiency	mL/g	3.4	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m2	0.0045	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m2	0.0092	
Ions	Na+	ppm	0.17	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.010	
	Ca++	ppm	0.053	
	Mg++	ppm	0.011	
	Cl-	ppm	0.39	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS/INNER BAG	INNER BAGS/CS	PKS/CS	STYLE
Gamma Wipe® 120	GW120ST0940	9x9"(23x23cm)	20	5	8	40	Header Bag
Gamma Wipe® 120	GW120ST15	12x12"(30x30cm)	20	5	3	15	Header Bag



Gamma Wipe® 300
Sterile Sealed Edge Cleanroom Laundered 100% Polyester

Key attributes

- 100% continuous filament polyester knit
- Two-ply pinsonic tubular construction
- Patented sealed edge process for reduced fiber contamination; Patent #5,229,181
- Laundered and packaged in Berkshire’s ISO Class 4 cleanroom with Lot Number on each pack
- Gamma irradiated and sterile validated to a 10⁻⁶ Sterility Assurance Level per AAMI guidelines
- Header style packaging with Package Integrity testing
- Certificate of Sterility with each case and available on the web by lot number 24/7. Details: Expiration Date, Radiation Dosage, Lot Information, Meets cGMP requirements for traceability

Benefits

- Critically low particles, fibers, ions and extractables
- High absorbency
- Pinsonic design adds surface texture that aids in stubborn residue removal
- Patented sealed edge process combined with tubular design offers excellent abrasion resistance for the toughest cleaning applications
- Chemically compatible with common cleaning and disinfecting solutions including isopropyl alcohol, phenols, bleaches and quarternary ammonium compounds

Environmental

- Complies with RoHS

Applications

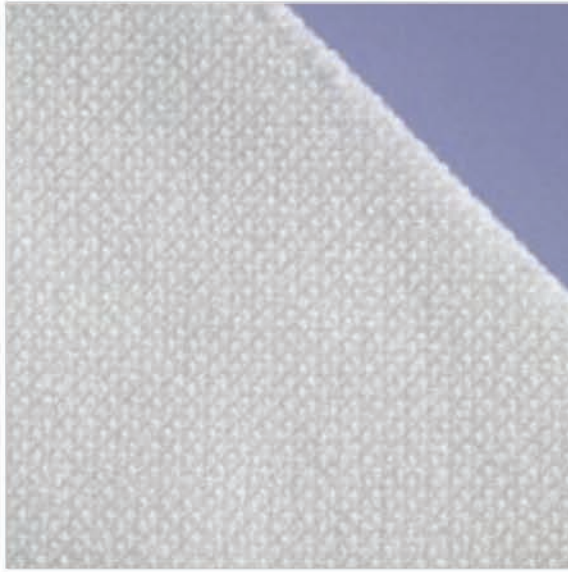
- Designed for use in ISO Class 3 and higher sterile environments where microbial exclusion is demanded
- Designed for cleaning sterile surfaces and equipment during aseptic processing
- Excellent for cleaning sterile laminar air flow units, barrier isolators and bio-containment units

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	189	TAPPI T-410
Caliper		µm	552	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.0075	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm ²	0.55	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	522	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	2.8	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m ²	0.0047	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m ²	0.025	
Ions	Na+	ppm	0.0049	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.041	
	Ca++	ppm	0.0086	
	Mg++	ppm	0.0025	
	Cl-	ppm	0.023	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS/INNER BAG	INNER BAGS/CS	PKS/CS	STYLE
Gamma Wipe® 300	GW300ST25	12x12"(30x30cm)	10	5	5	25	Header Bag



Gamma Wipe® - VP

Sterile Sealed Edge Cleanroom Laundered 100% Polyester Knit wiper

Key Attributes

- 100% continuous filament polyester knit
- Ultrasonically sealed edge for reduced fiber contamination
- Laundered and packaged in Berkshire's ISO Class 4 cleanroom with Lot Number on each pack
- Gamma irradiated and sterile validated to a 10⁻⁶ Sterility Assurance Level per AAMI guidelines
- Linear tear packaging
- Certificate of Sterility with each case and available on the web by lot number 24/7. Details: Date of Manufacture, Radiation Dosage, Lot Information, Meets cGMP requirements for traceability

Benefits

- Critically low particles, fibers, ions and extractables
- High abrasion resistance
- High Absorbency
- Chemically compatible with common cleaning and disinfecting solutions including isopropyl alcohol, phenols, bleaches and quarternary ammonium compounds
- Light weight, high absorbency material design reduces actual cost in use compared to heavier weight products

Environmental

- Light weight, high absorbency design reduces landfill waste impact when compared to more traditional heavier weight designs
- Complies with RoHS

Applications

- Designed for use in ISO Class 3 and higher sterile environments where microbial exclusion is demanded
- Designed for cleaning sterile surfaces and equipment during aseptic processing and USP <797> applications
- Excellent for cleaning sterile laminar air flow units, barrier isolators and bio-containment units

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	130	TAPPI T-410
Caliper		µm	442	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.12	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x10 ³ /cm ²	0.31	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	448	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modi-
	Efficiency	mL/g	3.4	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m ²	0.0019	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0054	
Ions	Na+	ppm	0.17	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.024	
	Ca ⁺⁺	ppm	0.053	
	Mg ⁺⁺	ppm	0.011	
	Cl-	ppm	0.032	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS/INNER BAG	INNER BAGS/CS	PKS/CS	STYLE
Gamma Wipe® VP	GWVPST0940	9x9"(23x23cm)	20	5	8	40	Header Bag
Gamma Wipe® VP	GWVPST25	12x12"(30x30cm)	20	5	5	25	Header Bag

**Vipers SPC68**

- Material: 45% Polyester, 55% Cellulose
- Format: 23 x 23 cm, 30 x 30 cm
- Thickness: 0,3 mm
- Basic weight: 68 g/m²
- ISO 6
- GMP A/B
- Edge cut: laser cut
- Absorption capacity: 288 ml/m²
- Bag with 5 x 20 wipes
- Sterile

**Vipers SP115**

- Material: Polyester
- Format: 23 x 23 cm
- Thickness: 0,48 mm
- Basic weight: 115 g/m²
- ISO 5
- GMP A/B
- Edge cut: laser cut
- Absorption capacity: 310 ml/m²
- Bag with 5x10 wipes
- Sterile

**Vipers SP140**

- Material: Polyester
- Format: 23 x 23 cm
- Thickness: 0,38 mm
- Basic weight: 140 g/m²
- ISO 5
- GMP A/B
- Edge cut: ultrasonically sealed
- Absorption capacity: 415 ml/m²
- Bag with 10x10 wipes
- Sterile

**Vipers SPNW68**

- Material: Polyester- Fleece
- Format: 34 x 36 cm
- Thickness: 0,45 mm
- Basic weight: 68 g/m²
- ISO 5
- GMP A/B
- Edge cut: laser cut
- Absorption capacity: 400 ml/m²
- Bag with 50 wipes
- Sterile



Series 300 S

Properties

- 45% polyester / 55% cellulose
- Hydroentangled non-woven fabric
- Validated sterile
- Low particle and fibre emission
- Relatively abrasion resistant
- Special twill-textured surface
- Good absorptive capacity
- Double bag packing

Advantages

- Good chemical compatibility with different solvents and cleaning agents
- Multipurpose
- Cost effective

Applications

- All-purpose wipe
- Absorption of liquids and spills
- Suitable for cleaning tools
- Workplace cleaning – especially for smooth surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			45% PES / 55% CEL	
Edge processing			cold cut	
Mass per unit area		g/m ²	68	
Thickness		mm	0.30	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	6.7	
(Ae) extrinsic		ml/m ²	30.1	
NVR	IPA based	g/m ²	0.028	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.038	
Particulate residues	0.5 – ≤ 5.0 µm	x 10 ⁶ /m ²	19.5	IEST-RP-CC004.3
	> 5.0 – ≤ 100 µm	x 10 ⁶ /m ²	9.9	Section 6.1.3
Fibre residues	> 100 µm	fibres/m ²	2.6	Biaxial Shake Test
				IEST-RP-CC004.3
Ionic residues	Sodium (Na ⁺)	ppm	10.3	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	42	Section 7.2.2.1
Sterilisation	validated sterile	Sterility Assurance Level (SAL)	6.22	AAMI / ISO 11137
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
4"x4"	On Request	57300 0404
9"x9"	150 pieces (6x25)	57300 0909
12"x12"	150 pieces (6x25)	57300 1212
18"x18"	75 pieces (3x25)	57300 1818



Series 302 S

Properties

- 45% polyester / 55% cellulose
- Hydro-entangled non-woven fabric
- Validated sterile
- Low particle and fibre emission
- Relatively abrasion resistant
- Good absorptive capacity
- Double bag packing

Advantages

- Good chemical compatibility with different solvents and cleaning agents
- One of the purest polyester-cellulose non-woven wipes
- Multipurpose

Applications

- All-purpose wipe partly also for more sensitive areas
- Absorbency of liquids and spills
- Also for the cleaning of (particulate) more critical areas (when pure polyester wipes cannot be used)
- Workplace cleaning – especially for smooth surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			45% PES / 55% CEL	
Edge processing			cold cut	
Mass per unit area		g/m ²	68	
Thickness		mm	0.30	IEST-RP-CC004.3
Absorptive capacity				
(AI) intrinsic		ml/g	5.1	
(Ae) extrinsic		ml/m ²	30.11	IEST-RP-CC004.3
NVR	IPA based	g/m ²	0.073	
Non-volatile residues	DI water based	g/m ²	0.097	IEST-RP-CC004.3
Particulate residues	0.5 – < 5.0 µm	x 106/m ²	28.3	Section 6.1.3
	> 5.0 – ≤ 100 µm	x 106/m ²	1.2	Biaxial Shake Test
Fibre residues	> 100 µm	fibres/cm ²	14.2	IEST-RP-CC004.3
				Section 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	27.3	Section 7.2.2.1
	Chloride (ClO ₂ ⁻)	ppm	35	by FTIR spectrometer
Organic contaminants	silicone oil		n. s.	Fourier transform infrared spectrometer
	amides		n. s.	
	D-n-octylphthalate (DOP)		n. s.	
Sterilisation	validated sterile	Sterility Assurance Level (SAL)	10.6	AAMI/ISO 11737 Sterilization of health care products – Microbiological methods – Part 1: Determination of a population of microorganisms on products

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
6"x6"	200 pieces (8x25)	57302 0606
9"x9"	150 pieces (6x25)	57302 0909
12"x12"	150 pieces (6x25)	57302 1212
18"x18"	75 pieces (3x25)	57302 1818



Series 303 S

Properties

- 45% polyester / 55% cellulose
- Hydro-entangled non-woven fabric
- Gamma-irradiated
- Low particle and fibre emission
- Relatively abrasion resistant
- Special twill-textured surface
- Good absorptive capacity
- Double bag packing

Advantages

- Good chemical compatibility with different solvents and cleaning agents
- Multipurpose
- Can also absorb slightly coarser impurities due to the special surface, without damaging the surface to be cleaned.
- Cost-effective

Applications

- All-purpose wipe
- Absorbency of liquids and spills
- Suitable for cleaning tools
- Workplace cleaning – especially for smooth surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			45% PES / 55% CEL	
Edge processing			cold cut	
Mass per unit area		g/m ²	68	
Thickness		mils	19	
		mm	0.1	
Absorption capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	4.9	
(Ae) extrinsic		ml/m ²	328	
NVR	IPA based	mg/g	0.020	IEST-RP-CC004.3
Non-volatile residues	DI water based	mg/g	0.016	
Particulate residues	0.5 – ≤ 5.0 µm	x 10 ⁶ /m ²	30.10	IEST-RP-CC004.3
	> 5.0 – ≤ 100 µm	x 10 ⁶ /m ²	15.1	Section 6.1.3
				Biaxial Shake Test
Fibre residues	> 100 µm	fibres/m ²	111	IEST-RP-CC004.3
				Section 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	52	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	1.00	Section 7.2.2.1
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	
Sterilisation	Gamma radiation	kGy	25 – 40	DIN EN ISO 11137-1

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9"x9"	300 pieces	57303 0909
12"x12"	150 pieces	57303 1212



Series 410-bulk S

Properties

- 100% polyester
- Two-ply interlock fabric made of filaments, ultrasonically welded and quilted
- Gamma irradiated
- Edges cut and sealed per laser
- Very low particle and fibre emission
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Specially absorbent due to the double knitted construction
- Reduced particle and fibre emission due to the sealed edges
- Wide range of applications, especially in the field of surface disinfection

Applications

- Cleaning wipe especially for critical areas
- Cleaning wipe for areas where high absorbency and purity are required
- Good suitable for angular, rough surfaces and objects which might prematurely damage a non-woven fabric wipe

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100% PES	
Edge processing			Laser cut	
Mass per unit area		g/m ²	251	
Thickness		mils	36	
		mm	0.91	
Absorption capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	2.7	
(Ae) extrinsic		ml/m ²	660	
NVR	IPA based	mg/g	0.075	IEST-RP-CC004.3
Non-volatile residues	DI water based	mg/g	0.018	
Particulate residues	0.5 – ≤ 5.0 µm	x 10 ⁶ /m ²	13.1	IEST-RP-CC004.3
	> 5.0 – ≤ 100 µm	x 10 ⁶ /m ²	0.13	Section 6.1.3
Fibre residues	> 100 µm	fibres/m ²	550	Biaxial Shake Test
				IEST-RP-CC004.3
Ionic residues	Sodium (Na ⁺)	ppm	0.8	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	0.7	Section 7.2.2.1
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	
Sterilisation	Gamma radiation	kGy	25 – 40	DIN EN ISO 11137

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
12"x12"	100 pieces	57410-bulk S 1212



Series 300 S

Properties

- 45% polyester / 55% cellulose
- Hydroentangled non-woven fabric
- Validated sterile
- Low particle and fibre emission
- Relatively abrasion resistant
- Special twill-textured surface
- Good absorptive capacity
- Double bag packing

Advantages

- Good chemical compatibility with different solvents and cleaning agents
- Multipurpose
- Cost effective

Applications

- All-purpose wipe
- Absorption of liquids and spills
- Suitable for cleaning tools
- Workplace cleaning – especially for smooth surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			45% PES / 55% CEL	
Edge processing			cold cut	
Mass per unit area		g/m ²	68	
Thickness		mm	0.30	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	6.7	
(Ae) extrinsic		ml/m ²	30.1	
NVR	IPA based	g/m ²	0.028	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.038	
Particulate residues	0.5 – ≤ 5.0 µm	x 10 ⁶ /m ²	19.5	IEST-RP-CC004.3
	> 5.0 – ≤ 100 µm	x 10 ⁶ /m ²	9.9	Section 6.1.3
Fibre residues	> 100 µm	fibres/m ²	2.6	Biaxial Shake Test
				IEST-RP-CC004.3
Ionic residues	Sodium (Na ⁺)	ppm	10.3	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	42	Section 7.2.2.1
Sterilisation	validated sterile	Sterility Assurance Level (SAL)	6.22	AAMI / ISO 11137
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
4"x4"	On Request	57300 0404
9"x9"	150 pieces (6x25)	57300 0909
12"x12"	150 pieces (6x25)	57300 1212
18"x18"	75 pieces (3x25)	57300 1818



Series 302 S

Properties

- 45% polyester / 55% cellulose
- Hydro-entangled non-woven fabric
- Validated sterile
- Low particle and fibre emission
- Relatively abrasion resistant
- Good absorptive capacity
- Double bag packing

Advantages

- Good chemical compatibility with different solvents and cleaning agents
- One of the purest polyester-cellulose non-woven wipes
- Multipurpose

Applications

- All-purpose wipe partly also for more sensitive areas
- Absorbency of liquids and spills
- Also for the cleaning of (particulate) more critical areas (when pure polyester wipes cannot be used)
- Workplace cleaning – especially for smooth surfaces

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			45% PES / 55% CEL	
Edge processing			cold cut	
Mass per unit area		g/m ²	68	
Thickness		mm	0.30	IEST-RP-CC004.3
Absorptive capacity				
(Ai) intrinsic		ml/g	5.1	
(Ae) extrinsic		ml/m ²	30.11	IEST-RP-CC004.3
NVR	IPA based	g/m ²	0.073	
Non-volatile residues	DI water based	g/m ²	0.097	IEST-RP-CC004.3
Particulate residues	0.5 – < 5.0 µm	x 106/m ²	28.3	Section 6.1.3
	> 5.0 – ≤ 100 µm	x 106/m ²	1.2	Biaxial Shake Test
Fibre residues	> 100 µm	fibres/cm ²	14.2	IEST-RP-CC004.3
				Section 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	27.3	Section 7.2.2.1
	Chloride (ClO ₂ ⁻)	ppm	35	by FTIR spectrometer
Organic contaminants	silicone oil		n. s.	Fourier transform infrared spectrometer
	amides		n. s.	
	D-n-octylphthalate (DOP)		n. s.	
Sterilisation	validated sterile	Sterility Assurance Level (SAL)	10.6	AAMI/ISO 11737 Sterilization of health care products – Microbiological methods – Part 1: Determination of a population of microorganisms on products

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
6"x6"	200 pieces (8x25)	57302 0606
9"x9"	150 pieces (6x25)	57302 0909
12"x12"	150 pieces (6x25)	57302 1212
18"x18"	75 pieces (3x25)	57302 1818



Series 410-AF S

Properties

- 100% polyester, two-ply knitted wipe ultrasonically welded, continuous filaments
- Edges cut and sealed by ultrasound
- Clean and abrasion resistant
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)
- Gamma-irradiated

Advantages

- Good absorption capacity due to the double-knit construction
- Extremely low emission of own particles
- Reduced fibre release due to the sealed edges
- Low ionic and metallic impurities

Applications

- Cleaning wipe especially for critical areas
- Cleaning wipe for areas where high absorbency and cleanliness are required
- Well suited for angular, rough surfaces and objects that might prematurely damage a non-woven fabric wipe

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100% PES	
Edge processing			ultrasonic cut	
Mass per unit area		g/m ² ± 5%	265	
Thickness		mm ± 5%	0.87	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	1.3	
(Ae) extrinsic		ml/m ²	7.5	
Absorbency rate		second	< 1	IEST-RP-CC004.3
NVR	IPA based	µg/m ²	1.66	IEST-RP-CC004.3
Non-volatile residues	DI water based	µg/m ²	n. s.	
Particulate residues	≥ 0.5 µm	103/cm ²	0.1	IEST-RP-CC004.3
				performed by Liquid-borne Particle Counter (LPC)
Fibre residues	> 100 µm	fibres/m ²	n. s.	IEST-RP-CC004.3
Ionic residues	Aluminium (Al-)	µg/cm ²	n. s.	IEST-RP-CC004.3
	Calcium (Ca+)	µg/cm ²	0.001	performed by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
	Iron (Fe+)	µg/cm ²	n. s.	
	Lithium (Li+)	µg/cm ²	n. d.	
	Magnesium (Mg+)	µg/cm ²	0.001	
	Nitrate (NO ₃ -)	µg/cm ²	n. d.	
	Nitrite (NO ₂ -)	µg/cm ²	n. s.	
	Phosphate (PO ₄ 3-)	µg/cm ²	n. s.	
	Potassium (K+)	µg/cm ²	0.001	
	Sodium (Na+)	µg/cm ²	0.011	
	Sulphate (SO ₄ 2-)	µg/cm ²	0.004	
Organic contaminants	silicone oil		n. d.	by FTIR spectrometer
	amides		n. d.	Fourier transform infrared spectrometer
	D-n-octylphthalate		n. d.	
Sterilisation	Gamma radiation	kGy	25 - 40	DIN EN ISO 11137-1

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9"x9"	100 pieces	57410-AF-55
12"x12"	100 pieces	57410-AF



Series 415 S

Properties

- 100% polyester
- Knitted fabric made of filaments
- Gamma irradiated
- Low particle and fibre emission
- Abrasion resistant
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Robust wipe
- Reduced particle and fibre emission due to the sealed edges
- Very wide range of applications
- Low ionic and metallic impurities

Applications

- Cleaning wipe for critical and non-critical areas
- Well suited for angular, rough surfaces and objects that might prematurely damage a non-woven fabric wipe

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			100% PES	
Edge processing			laser cut	
Mass per unit area		± 10 g/m ²	145	
Absorptive capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	3.0	
(Ae) extrinsic		ml/m ²	3.2	
NVR	IPA based	g/m ²	0.015	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.004	
Absorbency rate		second	<1	IEST-RP-CC004.3
Particulate residues	> 0,5 µm - ≤ 100 µm	x 10 ⁶ /m ²	3.0	IEST-RP-CC004.3, Sec. 6.1.4 Orbital shake test)
Fibre residues	> 100 µm	fibres/m ²	18.7	IEST-RP-CC004.3
Ionic residues	Chloride (ClO ₂ ⁻)	µg/g	0.10	IEST-RP-CC004.3
	Sodium (Na ⁺)	µg/g	0.15	
	Sulphate (SO ₄ ²⁻)	µg/g	0.08	
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	
Sterilisation	Gamma irradiation	kGy	25 - 40	DIN EN ISO 11137-1

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
9"x9"	1500 pieces	57415 0909
12"x12"	1000 pieces	57415 1212



Series 425 S

Properties

- 70% polyester / 30% nylon
- Knitted fabric made from microfibres
- Gamma-irradiated
- Edges cut and sealed by laser
- Low particle and fibre emission
- Abrasion resistant
- Decontaminated in a cleanroom laundry
- Double bag packed in a cleanroom (air cleanliness class ISO 4)

Advantages

- Wipe with very high cleaning efficiency
- Reduced particle and fibre emission due to the sealed edges
- Very wide range of applications
- Low ionic and metallic impurities
- Soft surface and therefore also suitable for scratch-sensitive surfaces

Applications

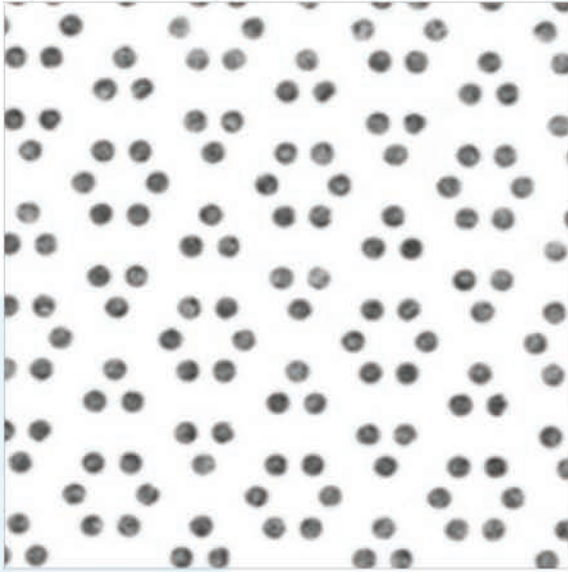
- Cleaning wipe especially for critical areas
- Cleaning wipe for all other areas
- Well suited for sharp-edged, rough surfaces and objects that might prematurely damage a non-woven wipe

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material			70% PES / 30% PA 6.6	
Edge processing			laser cut	
Mass per unit area		g/m ² ± 10%	190	
Absorption capacity				IEST-RP-CC004.3
(Ai) intrinsic		ml/g	n.s.	
(Ae) extrinsic		ml/m ²	25.12	
NVR	IPA based	g/m ²	0.12	IEST-RP-CC004.3
Non-volatile residues	DI water based	g/m ²	0.03	
Particle residues	> 0.5 µm - 2,0 µm	x 10 ⁶ /m ²	1.00	IEST-RP-CC004.3, Sec. 6.1.4 Orbital shake test
Fibre residues	> 100 µm	fibres/m ²	n.s.	IEST-RP-CC004.3
Ionic residues	Chloride (ClO ₂ ⁻)	µg/g	0.50	IEST-RP-CC004.3
	Nitrate (NO ₃ ⁻)	µg/g	0.50	
	Potassium (K ⁺)	µg/g	0.20	
	Sodium (Na ⁺)	µg/g	1.00	
	Sulphate (SO ₄ ²⁻)	µg/g	0.20	
Organic contaminants	silicone oil		n. s.	by FTIR spectrometer
	amides		n. s.	Fourier transform infrared spectrometer
	D-n-octylphthalate (DOP)		n. s.	
Sterilisation	Gamma irradiation	kGy	25 - 40	DIN EN ISO 11137

ORDER INFORMATION

DIMENSIONS	PU PER BAG	ART. NO.
12"x12"	50 pieces	57425-50



PROSAT® Sterile Wipes

Properties

- 100% polypropylene
- Meltblown non-woven fabric
- Presaturated with 70% IPA / 30% DI water (USP grade)
- Reclosable PE pouch
- Packed in an outer bag
- Validated sterile (SAL of 10⁻⁶), triple bag packaging

Advantages

- Reduced level of volatile organic compounds (VOC)
- Fast and efficient cleaning
- Reduces the storage of cleaning agents
- Easier to transport, store and use
- Even application of the cleaning solution

Applications

- Wiping of objects before the airlock procedure
- For quick and practical surface cleaning of equipment and parts
- Wet cleaning of scratch-sensitive surfaces to specifically remove chemical residues

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material (fabric)			100% polypropylene (PP)	
Saturation solution			70% IPA (USP grade) /30% DI water	
Edge processing			cut	
Mass per unit area		g/m ²	5.2	
Thickness		mm	n.s.	
NVR	IPA based	g/m ²	0.07	IEST-RP-CC004.3, Sec. 7.1.2
Non-volatile residues	DI-water based	g/m ²	0.01	IEST-RP-CC004.3, Sec. 7.1.2
Particle residues	≥ 0.5 µm	x 10 ⁶ /m ²	08.22	IEST-RP-CC004.2, Sec. 5.1
Fiber residues	> 100 µm	x 10 ³ /m ²	6.3	IEST-RP-CC004.2, Sec. 5.2
Ionic residues	Sodium (Na ⁺)	ppm	3.1	IEST-RP-CC004.3, Sec. 7.2.2
	Chloride (ClO ₂ ⁻)	ppm	5.1	IEST-RP-CC004.3, Sec. 7.2.2
Sterilisation	Electron Beam Irradiation (EBI)	SAL (10 ⁻⁶)	yes	AAMI Guidelines Association for the Advancement of Medical Instrumentation

ORDER INFORMATION

DIMENSIONS	PU PER CARDBOARD	ART. NO.
9"x11"	1440 pieces	59801



PROSAT® Sterile™ PS-7030IR

Properties

- 100% polyester
- Hydroentangled non-woven fabric
- Saturated with 70% IPA/30% DI water (USP quality)
- Validated sterile (SAL of 10⁻⁶)
- Resealable PE pouch with a tamper-evident label, packed in a bag and outer bag

Advantages

- Low particle and fibre emission
- Fast and efficient cleaning
- Reduces the storage of cleaning agents
- Easier to transport, store and use
- Even application of the cleaning solution

Applications

- Wiping of objects before the airlock procedure
- For quick and practical surface cleaning of equipment and parts
- Wet cleaning of scratch-sensitive surfaces to specifically remove chemical residues

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material (fabric)			100% PES	
Saturation solution			70% IPA (USP grade) / 30% deionised water	
Edge processing			cut	
Mass per unit area		g/m ²	67	
Non-volatile residues	IPA based	g/m ²	0.008	IEST-RP-CC004.3, Sec. 7.1.2
NVR	DI water based	g/m ²	0.055	IEST-RP-CC004.3, Sec. 7.1.2
Particle residues	≥ 0.5 µm	x 10 ⁶ /m ²	39.3	IEST-RP-CC004.2, Sec. 5.1.2
Fibre residues	> 100 µm	x 10 ³ /m ²	10.4	IEST-RP-CC004.2, Sec. 5.2
Ionic residues	Sodium (Na ⁺)	ppm	9.22	IEST-RP-CC004.3, Sec. 7.2.2
	Chloride (ClO ₂ ⁻)	ppm	4.7	IEST-RP-CC004.3, Sec. 7.2.2
Sterilisation	Gamma radiation		yes	AAMI Guidelines

ORDER INFORMATION

DIMENSIONS	PU IN A CASE	ART. NO.
9"x9"	800 pieces	59803



PROSAT[®] Sterile Low Endotoxin

Properties

- 100% polyester
- Interlock knitted fabric
- Saturated with 70% IPA/30% WFI water (IPA with USP cleanliness grade > 99%)
- Validated sterile (SAL of 10⁻⁶)
- Each batch has a guaranteed endotoxin level of less than 1 EU/device
- Laser cut and sealed edges
- Reclosable PE pouch, packed in a bag and outer bag

Advantages

- Low particle and fibre emission
- Abrasion resistant
- Fast and efficient cleaning
- Reduces the storage of cleaning agents
- Easier to transport, store and use
- Even application of the cleaning solution

Applications

- Highly critical cleanrooms in the pharmaceutical industry
- For wet cleaning in sterile environment including process tools and other special equipment

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material (fabric)			100% PES (no-run interlock knit)	
Saturation solution			70% IPA (USP grade) / 30% WFI (Water for injection)	
Edge processing			Laser cut	
Mass per unit area		g/m ²	19.5	
Thickness		mm	n.s.	
NVR	IPA based	g/m ²	0.01	IEST-RP-CC004.3, Sec. 7.1.2
Non-volatile residues	DI-water based	g/m ²	0.01	IEST-RP-CC004.3, Sec. 7.1.2
Particle residues	≥ 0.5 µm	x 106/m ²	2.6	IEST-RP-CC004.2, Sec. 5.1
Fibre Residues	> 100 µm	x 103/m ²	0.142	IEST-RP-CC004.2, Sec. 5.2
Ionic Residues	Sodium (Na ⁺)	ppm	0.18	IEST-RP-CC004.3, Sec. 7.2.2
	Chloride (ClO ₂ ⁻)	ppm	0.003	IEST-RP-CC004.3, Sec. 7.2.2
Sterilisation	validated sterile	SAL 10 ⁻⁶	Yes	n.s.
Guaranteed endotoxin level		Endotoxin Unit (EU)/wipe	<1	n.s.

ORDER INFORMATION

DIMENSIONS	PU IN A CASE	ART. NO.
9"x9"	550 pieces	59805
12"x12"	450 pieces (double bagged)	59805-01
12"x12"	300 pieces (triple bagged)	59805-02



PROSAT® PSC20005

Properties

- 46% polyester/54% cellulose
- Non-woven fabric made of water jet entangled staple fibres
- Saturated with 70% IPA/30% DI water (USP quality)
- Validated sterile (SAL of 10⁻⁶)
- Reclosable PE pouch, packed in an outer bag

Advantages

- Reduced level of volatile organic compounds (VOC)
- Fast and efficient cleaning
- Reduces the storage of cleaning agents
- Easier to transport, store and use
- Even application of the cleaning solution

Application

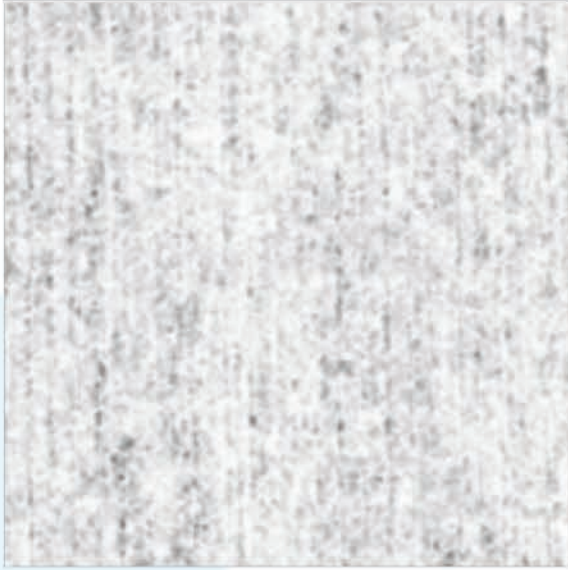
- Wiping of objects before the airlock procedure
- For quick and practical surface cleaning of equipment and parts
- Wet cleaning of scratch-sensitive surfaces to specifically remove chemical residues

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material (fabric)			54% CEL / 46% PES	
Saturation solution			70% IPA (USP grade) / 30% DI water	
Edge processing			cut	
Mass per unit area		g/m ²	53	manufacturer's specific
NVR	IPA based	g/m ²	not detected*	IEST-RP-CC004.3, Sec. 7.1.2
non-volatile residues)	DI water based	g/m ²	0.037	IEST-RP-CC004.3, Sec. 7.1.2
Particle residues	≥ 0,5 µm	x 106/m ²	18.6	IEST-RP-CC004.2, Sec 5.1
Fibre residues	> 100 µm	x 103/m ²	21.7	IEST-RP-CC004.2, Sec. 5.2
Ionic residues	Sodium (Na ⁺)	ppm	9.22	IEST-RP-CC004.3, Sec. 7.2.2
	Chloride (ClO ₂ ⁻)	ppm	18.2	IEST-RP-CC004.3, Sec. 7.2.2
Sterilisation	validated sterile	SAL (10 ⁻⁶)	yes	n.s.
	per gamma irradiation			

ORDER INFORMATION

DIMENSIONS	PU IN A CASE	ART. NO.
9"x9"	1400 pieces	59808



SERIES 909

Properties

- 45% polyester / 55% cellulose
- Water jet compacted non-woven fabric
- Saturated with 70% isopropanol / 30% DI water
- Validated sterile (SAL of 10⁻⁶)
- Reclosable PE pouch
- Packed in an outer bag

Advantages

- Reduced level of volatile organic compounds (VOC)
- Fast and efficient cleaning
- Reduces the storage of cleaning agents
- Easier to transport, store and use
- Even application of the cleaning solution

Applications

- Wiping of objects before the airlock procedure
- For quick and practical surface cleaning of equipment and parts
- Wet cleaning of scratch-sensitive surfaces to specifically remove chemical residues
- Chapter USP <797> „Pharmaceutical Compounding – Sterile Compounding“

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material (fabric)			45% PES / 55% CEL	
Saturation solution			70% IPA / 30% DI water	
Edge processing			cold cut	
Mass per unit area		g/m ²	23.2	
Thickness		mils	n.s.	
		mm	n.s.	
Non-volatile residues	IPA based	ppm	0.228	IEST-RP-CC004.3
NVR	DI water based	ppm	0.574	IEST-RP-CC004.3
Particle residues	> 0.5 µm	x 10 ⁶ /m ²	12.5	IEST-RP-CC004.3 Sec. 6.1.4 Orbitaler Schütteltest
Fibre residues	> 100 µm	x 10 ³ /m ²	1.1	IEST-RP-CC004.3
				Sec. 6.2.2.2
Ionic residues	Sodium (Na ⁺)	ppm	2.16	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	1.9	Sec. 7.2.2
Sterilisation	validated sterile	SAL (10 ⁻⁶)	yes	AAMI
				ISO 11737-1
				Sterilization of health care products – Radiation

ORDER INFORMATION

DIMENSIONS	PU IN A CASE	ART. NO.
9"x9"	810 pieces	9909



CONTEC® Critical Site® Sterile Wipes

Properties

- Hydroentangled non-woven fabric made of 100% polyester
- Saturated with 70% IPA / 30% DI water
- Validated sterile (SAL at 10⁻⁶)
- Particulate clean

Advantages

- Small wipe needed in larger quantities per use
- Good chemical resistance
- Reduced levels of volatile organic compounds (VOC)
- Low-cost version compared to knitted wipes
- Fast-drying disinfection
- Storage costs for cleaning agents and time-consuming ancillary work such as decanting, spraying and wetting are eliminated
- Resealable bag ensures constant solvent saturation during use
- Space-saving, ideal for isolators or unidirectional airflow cabinets (UDAF)

Applications

- Ideal for wiping the top of vials prior to piercing the septum for reconstitution or use
- Pharmaceutical industry
- Medical devices and equipment
- Cleaning of parts of insulators or barrier systems with restricted access (RABS)
- Removing contamination from the workplace and during maintenance work

TECHNICAL DATA

PROPERTIES		UNIT OF MEASUREMENT	VALUE	TEST METHOD
Material (fabric)			100% PES	
			hydroentangled	
Saturation solution			70% IPA /	
			30% DI water	
Edge processing			cut	
Mass per unit area		g/m ²	7.3	
Thickness		mils	n.s.	
		mm	n.s.	
Non-volatile residues	IPA based	ppm	0.008	IEST-RP-CC004.3, Sec. 7.1.2
NVR	DI water based	ppm	0.055	IEST-RP-CC004.3, Sec. 7.1.2
Particle residues	> 0.5 µm	x 10 ⁶ /m ²	39.3	IEST-RP-CC004.2, Sec. 5.1
Fibre residues	> 100 µm	x 10 ³ /m ²	10.4	IEST-RP-CC-004.2, Sec. 5.2
Ionic residues	Sodium (Na ⁺)	ppm	1.2	IEST-RP-CC004.3
	Chloride (ClO ₂ ⁻)	ppm	9.35	IEST-RP-CC004.3
Sterilisation	validated sterile	SAL (10 ⁻⁶)	yes	AAMI ISO 11737-1 Sterilization of health care products - Radiation

ORDER INFORMATION

DIMENSIONS	PU IN A CASE	ART. NO.
4"x4"	1440 pieces	59802-01



Sterile SatPax® 670

Sterile Pre-wetted 55% Cellulose / 45% Polyester Nonwoven Cleanroom Wiper

Key Attributes

- 55% cellulose / 45% polyester hydroentangled nonwoven blend
- No chemical binders in base material
- Pre-wetted with consistent 70% IPA/ 30% DI Water to a high saturation level
- Re-sealable solvent resistant packaging
- Wipers in c-folded configuration for single withdrawal
- Gamma irradiated and sterile validated to a 10⁻⁶ Sterility Assurance Level per AAMI guidelines
- Certificate of Sterility available to download on the web by lot number 24/7. Details: Expiration Date, Radiation Dosage, Lot Information, Meets cGMP requirements for traceability

Benefits

- Low extractables and fiber and particle counts
- Smooth and durable with good wet strength
- Reduces alcohol usage and preparation / handling costs
- Reduces VOC emissions
- Increases cleaning efficiency
- Increases cleaning protocol consistency

Environmental

- Reduces VOC (Volatile Organic Compound) emissions
- 55% cellulose fiber content is biodegradable
- Complies with RoHS
- Registered under REACH

Applications

- Designed for use in ISO Class 5 and higher sterile cleanroom environments and USP <797> applications
- Designed for use in wet cleaning of critical surfaces where control of flammable solvents and flammable solvent concentrations is required
- Final cleaning of surfaces or products prior to manufacturing or packaging
- High saturation level is ideal for removing cleaning and disinfecting residues in sterile environments
- Meets AMS 3819C requirements, Class2, Grade A, Form 2

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m2	68.0	TAPPI T-410
Caliper		µm	264	TAPPI T-411
Fibers	≥100µm	fibers/cm2	160	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.2 modified
Particles	≥0.5µm	x103/cm2	10	IEST-RP-CC004.4 Sec 7.1.3/Sec 7.2.1 modified
Sorbency	Capacity	mL/m ²	320	IEST-RP-CC004.4 Sec 9.1/ Sec 9.2 modified
	Efficiency	mL/g	4.7	
	Rate	seconds	2	
Non-Volatile Residue	DI Water	g/m2	0.028	IEST-RP-CC004.4 Sec 8.1.2
	IPA	g/m2	0.0038	
Ions	Na+	ppm	62	IEST-RP-CC004.4 Sec 8.2.2
	K+	ppm	5.9	
	Ca++	ppm	22	
	Mg++	ppm	5.0	
	Cl-	ppm	31	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS/CS	IPA/DI	SATURATION	VOC % by WEIGHT	STYLE
Sterile SatPax® 670	SSP67000124	9x9" (23x23cm)	30	24	70/30	60%	44%	C-fold



Sterile SatPax® 1000
Sterile Pre-wetted 55% Cellulose / 45% Polyester
Nonwoven Cleanroom

Key Attributes

- 55% cellulose / 45% polyester hydroentangled nonwoven blend
- No chemical binders in base material
- Pre-wetted with consistent 70% IPA/ 30% DI Water to a high saturation level
- Re-sealable solvent resistant packaging
- Wipes in c-folded configuration for single withdrawal
- Gamma irradiated and sterile validated to a 10⁻⁶ Sterility Assurance Level per AAMI guidelines
- Certificate of Sterility available to download on the web by lot number 24/7. Details: Date of Manufacture, Radiation Dosage, Lot Information, Meets cGMP requirements for traceability

Benefits

- Low extractables and fiber and particle counts
- Smooth and durable with good wet strength
- Reduces alcohol usage and preparation / handling costs
- Reduces VOC emissions
- Increases cleaning efficiency
- Increases cleaning protocol consistency

Environmental

- Reduces VOC (Volatile Organic Compound) emissions
- Complies with RoHS and
- Registered under REACH

Applications

- Designed for use in ISO Class 5 and higher sterile cleanroom environments
- Designed for use in wet cleaning of critical surfaces where control of flammable solvents and flammable solvent concentrations is required
- Final cleaning of surfaces or products prior to manufacturing or packaging
- High saturation level is ideal for removing cleaning and disinfecting residues in sterile environments maintenance work

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	68.0	TAPPI T-410
Caliper		µm	264	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	160	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x10 ³ /cm ²	1000%	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	32000%	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modi-
	Efficiency	mL/g	4.7	
	Rate	seconds	2	
Non-Volatile Residue	DI Water	g/m ²	0.028	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0038	
Ions	Na+	ppm	62	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	5.9	
	Ca ⁺⁺	ppm	22	
	Mg ⁺⁺	ppm	5.0	
	Cl ⁻	ppm	31	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS/CS	IPA/DI	SATURATION	VOC % by WEIGHT	STYLE
Sterile SatPax®	SSP1000.001.24	9x9" (23x23cm)	30	24	70/30	60%	44%	C-fold



Sterile SatPax® 1200
Sterile Pre-wetted Cleanroom Laundered 100% Polyester Knit Wiper

Key Attributes

- 100% continuous filament polyester knit
- Laundered and packaged in Berkshire's ISO Class 4 cleanroom
- Pre-wetted with consistent 70% IPA/ 30% DI Water to a high saturation level
- Re-sealable solvent resistant packaging
- Wipers in j-folded configuration for single withdrawal
- Gamma irradiated and sterile validated to a 10⁻⁶ Sterility Assurance Level per AAMI guidelines
- Certificate of Sterility available to download on the web by lot number 24/7. Details: Expiration Date, Radiation Dosage, Lot Information, Meets cGMP requirements for traceability

Benefits

- Very low fibers, particles, ions and extractables
- High abrasion resistance
- Reduces alcohol usage and preparation / handling costs
- Reduces VOC emissions
- Increases cleaning efficiency
- Increases cleaning protocol consistency

Environmental

- Reduces VOC (Volatile Organic Compound) emissions
- Complies with RoHS
- Registered under REACH

Applications

- Designed for use in ISO Class 4 and higher sterile cleanroom environments
- Designed for use in wet cleaning of critical surfaces where control of flammable solvents and flammable solvent concentrations is required
- Final cleaning of surfaces or products prior to manufacturing or packaging
- High saturation level is ideal for removing cleaning and disinfecting residues in sterile environments

TECHNICAL DATA

ATTRIBUTE		UNITS	VALUE	TEST METHOD
Basis Weight		g/m ²	151	TAPPI T-410
Caliper		µm	521	TAPPI T-411
Fibers	≥100µm	fibers/cm ²	0.35	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.2
Particles	≥0.5µm	x103/cm ²	0.22	IEST-RP-CC004.3, Sec 6.1.3 / Sec 6.2.1
Sorbency	Capacity	mL/m ²	509	IEST-RP-CC004.3, Sec 8.1 modified / Sec 8.2 modified
	Efficiency	mL/g	3.4	
	Rate	seconds	1	
Non-Volatile Residue	DI Water	g/m ²	0.0045	IEST-RP-CC004.3, Sec 7.1.2
	IPA	g/m ²	0.0092	
Ions	Na+	ppm	0.17	IEST-RP-CC004.3, Sec 7.2.2
	K+	ppm	0.010	
	Ca++	ppm	0.053	
	Mg++	ppm	0.011	
	Cl-	ppm	0.39	

ORDER INFORMATION

PRODUCT	NUMBER	SIZE	SHTS / PK	PKS/CS	IPA/DI	SATURATION	VOC % by WEIGHT	STYLE
SterileSatPax® 1200	SSP120000312	9x9" (23x23cm)	30	12	70/30	50%	38%	J-fold



VeriGuard 2- Alpha
Polycellulose C-folded Pouch Wipe

Benefits

- Increased disinfectant retention from re-sealable pouch
- Designed for small to medium batch manufacturing
- High absorbency
- Strong multifunctional wipe

Usage

- Cleanroom hard surface wipe
- Validated to be rotational with Micronclean Beta

Features

- Nonwoven Polycellulose wipe
- 15 wipes per pouch
- 10 pouches per case
- 68gsm wipe weight
- C-folded wipes within a re-sealable pouch
- 2 years shelf life

DISINFECTANT PERFORMANCE

SUSPENSION TESTS							
	PROTOCOL		ORGANISM	CONTACT TIME (MIN)	CONDITIONS	LOG REDUCTION TO PASS	LOG REDUCTION ACHIEVED
Suspension Tests	EN 1276	Bactericidal	Pseudomonas aeruginosa	5 mins	Dirty	> 5.0	7.76
Phase 2			Escherichia coli	5 mins	Dirty	> 5.0	7.40
Step 1			Staphylococcus aureus	5 mins	Dirty	> 5.0	7.72
			Enterococcus hirae	5 mins	Dirty	> 5.0	7.83
	EN 1650	Fungicidal/ Yeasticidal	Aspergillus niger	30 mins	Dirty	> 4.0	>4.00
	EN 13704		Candida albicans	30 mins	Dirty	> 4.0	>4.00
Suspension Tests	EN 13697	Bactericidal	Pseudomonas aeruginosa	5 mins	Clean	> 4.0	4.42
Phase 2			Escherichia coli	5 mins	Clean	> 4.0	6.08
Step 2			Staphylococcus aureus	5 mins	Clean	> 4.0	5.04
			Enterococcus hirae	5 mins	Clean	> 4.0	4.39
			Corynebacterium diphtheriae	5 mins	Clean	> 4.0	4.99

ORDER INFORMATION

NON-STERILE CODE	STERILE CODE	DESCRIPTION	SIZE	PACK QTY	PACK QTY	CASE QTY
	WSAP01009-A/I	Alpha Sessional Polycellulose C-folded Pouch Wipes Sterile	230 x 230mm	15 wipes per Pouch	15	10 x 15



VeriGuard 2 -Beta
Polycellulose C-folded Pouch Wipe

Benefits

- Increased disinfectant retention from re-sealable pouch
- Designed for small to medium batch manufacturing
- High absorbency
- Strong multifunctional wipe

Usage

- Cleanroom hard surface wipe
- Validated to be rotational with Micronclean Alpha

Features

- Nonwoven Polycellulose wipe
- 15 wipes per pouch
- 10 pouches per case
- 68gsm wipe weight
- C-folded wipes within a re-sealable pouch
- 2 years shelf life

DISINFECTANT PERFORMANCE

SUSPENSION TESTS							
	PROTOCOL		ORGANISM	CONTACT TIME (MIN)	CONDITIONS	LOG REDUCTION TO PASS	LOG REDUCTION ACHIEVED
Suspension Tests	EN 1276	Bactericidal	Salmonella typhimurium	1 min	Dirty	> 5.0	6.30
Phase 2			Escherichia coli	1 min	Dirty	> 5.0	6.20
Step 1			Enterococcus faecalis	1 min	Dirty	> 5.0	7.30
			Enterococcus hirae	1 min	Dirty	> 5.0	6.60
	EN 1650	Fungicidal/ Yeasticidal	Aspergillus niger	2 mins	Clean	> 4.0	> 4.00
			Candida albicans	2 mins	Clean	> 4.0	> 4.00
	EN 13704	Sporicidal	Clostridium difficile spores	2 mins	Clean	> 3.0	> 3.00
Suspension Tests	EN 13697	Bactericidal	Pseudomonas aeruginosa	5 mins	Clean	> 4.0	5.70
Phase 2			Escherichia coli	5 mins	Clean	> 4.0	> 6.56
Step 2			Staphylococcus aureus	5 mins	Clean	> 4.0	6.02
			Enterococcus hirae	5 mins	Clean	> 4.0	4.38
		Fungicidal	Aspergillus niger	15 mins	Dirty	> 3.0	4.08

ORDER INFORMATION

NON-STERILE CODE	STERILE CODE	DESCRIPTION	SIZE	PACK QTY	PACK QTY	CASE QTY
	WSBT02009- A/I	Beta Sessional Polycellulose C-folded Pouch Wipes Sterile	230 x 230mm	15 wipes per Pouch	15	10 x 15



VeriGuard 2- Delta Polycellulose C-folded Pouch Wipes

Benefits

- Delta Pre-saturated non-woven Poly-cellulose sterile wipes
- Supplied C-folded in a pouch ready for use
- Increased disinfectant retention from re-sealable pouch
- Specifically designed for use in Cleanrooms

Features

- Non-woven polycellulose wipe with sealed edges
- Pre-saturated with Delta to ensure optimum cleaning
- Supplied in a sessional pack to minimise waste
- Wipe Size: 23cm x 23cm (9" x 9")

ORDER INFORMATION

NON-STERILE CODE	STERILE CODE	DESCRIPTION	SIZE	PACK QTY	PACK QTY	CASE QTY
	WSND05009-A/I	Delta Sessional Poly-cellulose C-folded Pouch Wipes Sterile	230 x 230mm	15 wipes per Pouch	15	10 x 15



Vipers VSPP36

- Material: Polypropylene
- Format: 23 x 28 cm
- Thickness: 0,24 mm
- Basic weight: 36 g/m²
- ISO 5
- GMP A/B
- Absorption capacity: 174 ml/m²
- Bag with 30 wipes
- Sterile



VeriGuard 2- IMS
Polycellulose C-folded Pouch Wipe

Benefits

- Increased alcohol retention from re-sealable pouch
- Designed for large batch manufacturing
- High absorbency
- Strong multifunctional wipe

Usage

- Cleanroom hard surface wipe
- Cleanroom transfer process

Features

- White hydro-entangled Polycellulose wipe
- 15 or 100 wipes per pouch
- 8 pouches per case
- 68gsm wipe weight
- C-folded wipes within a re-sealable pouch
- 2 years shelf life

DISINFECTANT PERFORMANCE

SUSPENSION TESTS

PROTOCOL	ORGANISM	CONTACT TIME (MIN)	LOG REDUCTION TO PASS	LOG RELOCATION
BS EN 1040	S. aureus	5 min	Log 5.0	> 5.23
	P. aeruginosa	5 min	Log 5.0	> 5.43
BS EN 1275	C. albicans	15 min	Log 4.0	> 4.24
	A. niger	15 min	Log 4.0	> 4.30
BS EN 1276	S. aureus	5 min	Log 5.0	> 5.23
	E. coli	5 min	Log 5.0	> 5.43
	P. aeruginosa	5 min	Log 5.0	> 5.42
	E. hirae	5 min	Log 5.0	> 5.41
BS EN 1650	C. albicans	15 min	Log 4.0	> 4.30
	A. niger	15 min	Log 4.0	> 4.24

SURFACE TESTS

PROTOCOL	ORGANISM	CONTACT TIME (MIN)	LOG REDUCTION TO PASS	LOG RELOCATION
BS EN 13697	S. aureus	5 min	Log 4.0	> 5.7
	E. coli	5 min	Log 4.0	> 5.1
	P. aeruginosa	5 min	Log 4.0	> 4.7
	E. hirae	5 min	Log 4.0	> 5.6
	C. albicans	15 min	Log 3.0	> 3.9
	A. niger	15 min	Log 3.0	> 3.1

ORDER INFORMATION

STERILE CODE	DESCRIPTION	SIZE	PACK QTY	CASE QTY	CASE DIMENSIONS	WEIGHT
WSVG09023-A/I	IMS Polycellulose C-folded Pouch Wipe Sterile	230x230mm	100	8 x 100	310 x 280 x 390mm	8.5 Kg
WSCW91009-A/I	IMS Sessional Polycellulose C-folded Pouch Wipes Sterile	230x230mm	15	40 x 15	405 x 405 x 195mm	8.44 Kg

Please note: Data shown above are just typical values.

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