



NanoTek
ISO 3-4 (Class 1-10)

Valutek 2-Ply Ultrasonic Sealed Polyester Wiper



Valutek's 2-Ply ultrasonic-sealed polyester wiper is made from 100% continuous filament polyester in a 2-ply double-knit, no-run, interlock pattern with ultrasonically sealed edges.

This wiper is exceptionally clean and offers high absorbency with critically low levels of particulate and extractable counts.

It undergoes laundering and is packaged in a cleanroom.

All Valutek wipers are rigorously tested and manufactured in ISO-compliant facilities under Valutek's inspection and strict process control to maintain Valutek quality standards and meet product specifications.

Features

- 100% continuous filament, double-knit polyester fiber
- 2-ply construction with unique pattern and knitting structure that provides the highest cleanliness

Part Number: VT2PNWUS

- Ultrasonic sealed edge for reduced fiber contamination
- Highest possible absorbency
- Chemically compatible with IPA and other common solvents
- Critically low levels of particulate and extractable counts
- Available in a variety of sizes to suit most applications

Application

As part of the **Valutek Nanotek product family**, this product is recommended for use in cleanroom **Class 1-10 (ISO 3-4)** critical environments.

This wiper is designed for critical processing applications that demand high absorbency and low particle levels. It is commonly employed for spill control, large-volume cleaning, sterilization, disinfection, cleaning surfaces, and is also suitable for steam autoclaving in aseptic environments.

Pre-Wetted Option:

This wiper is available with customized saturated chemistries to meet your specific

Size and Packaging



Part Number	Size	Packaging
VT2PNWUS-46	4" x 6" 10 cm x 15 cm	600 ea/bag, 6 bags/case, 3600 ea/case
VT2PNWUS-99	9" x 9" 23 cm x 23 cm	100 ea/bag, 8 bags/case, 800 ea/case
VT2PNWUS-1212	12" x 12" 30 cm x 30 cm	100 ea/bag, 8 bags/case, 800 ea/case
VT2PNWUS-178	17" x 8" 43 cm x 20 cm	10 ea/bag, 10 bags/case, 100 ea/case
VT2PNWUS-1818	18" x 18" 46 cm x 46 cm	20 ea/bag, 10 bags/case, 200 ea/case
VT2PNWUS-248	24" x 8" 61 cm x 20 cm	10 ea/bag, 10 bags/case, 100 ea/case
VT2PNWUSE-178	17" x 8" 43 cm x 20 cm	60 ea/bag, 6 bags/case, 360 ea/case
VT2PNWUSE-248	24" x 8" 61 cm x 20 cm	50 ea/bag, 3 bags/case, 150 ea/case

- All wipers are packed in double poly bags, vacuum sealed, flat packed in carton boxes and with a carton liner.
- Critical environment compatible.
- All wipers are lot traceable with retention samples held in Quality Control for 36 months from manufacturing.



Gloves



Wipers



Apparel



Adhesive Mats



Cleaning & Maintenance



Documentation



Glove Liners



ESD



Valutek 2-Ply Ultrasonic Sealed Polyester Wiper

Part Number: VT2PNWUS

VT2PNWUS Technical Performance

Physical Attribute	Value	Units	Test Method
Basis Weight SPEC	240± 10	g/m ²	TAPPI T-410
Absorbency SPEC			
Sorptive Capacity	700	mL/m ²	IEST-RP.CC004.4, Sec 9.1/Sec 8.2
Sorptive Rate	< 2	second	
Cleanliness Attribute	SPEC*	TPV**	Test Method
Particle Counts			
LPC: ≥0.5 μm (m ²)	< 10 X 10 ⁶ /m ²	8.54 X 10 ⁶ /m ²	IEST-RP.CC004.4, Sec 7.1.3/Sec 7.2.1
LPC: ≥0.5 μm (cm ²)	< 1.0 X 10 ³ /cm ²	0.854 X 10 ³ /cm ²	
Fiber Counts			
Fibers: ≥ 100 μm (m ²)	< 250 /m ²	150 /m ²	IEST-RP.CC004.4, Sec 7.1.3/Sec 7.2.2
Fibers: ≥ 100 μm (cm ²)	< 0.025 /cm ²	0.15 /cm ²	
Non Volatile Residue (NVR)			
DI Water Extractant	< 0.05 g/m ²	0.02 g/m ²	IEST-RP.CC004.4, Sec 8.1.2
IPA Extractant	< 0.20 g/m ²	0.05 g/m ²	
FTIR			
Silicone Oil, Amide & DOP	Not Detectable	Not Detectable	IEST-RP.CC004.4, Sec 8.2.1
Extractable Counts (Ions)			
Sodium(Na ⁺)	<0.2 ppm	0.04 ppm	IEST-RP.CC004.4, Sec 8.2.2
Potassium(K ⁺)	<0.2 ppm	0.01 ppm	
Calcium(Ca ²⁺)	<0.5 ppm	0.06 ppm	
Magnesium(Mg ²⁺)	<0.2 ppm	0.02 ppm	
Ammonium(NH ₄ ⁺)	N/A	0.03 ppm	
Nitrate(NO ₃ ⁻)	<0.3 ppm	0.01 ppm	
Fluoride(F ⁻)	N/A	0 ppm	
Nitrite(NO ₂ ⁻)	<0.2 ppm	0 ppm	
Bromide(Br ⁻)	N/A	0 ppm	
Phosphate(PO ₄ ³⁻)	N/A	0 ppm	
Chloride(Cl ⁻)	<0.2 ppm	0.01 ppm	
Sulfate(SO ₄ ²⁻)	<0.2 ppm	0 ppm	

Notes:

***SPEC** values listed reflect upper/lower manufacturing specification limits.

****TPV**, or "Typical Published Values", are based on actual 36 month rolling lot average. These reflect typical performance, not minimum or maximum values.

Certificates of Analysis available upon request for actual lot-to-lot test data. Full **36 month lot trend analysis** report available upon request.

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