



NanoTek
ISO 3-4 (Class 1-10)

Valutek Ultrasonic Sealed Polyester Wiper



Valutek's ultrasonic-sealed polyester wiper is crafted from 100% continuous filament polyester in a double-knit, no-run, interlock pattern with an ultrasonically sealed edge. This wiper is exceptionally clean and boasts high absorbency, featuring extremely low levels of particulate and extractable counts.

It undergoes laundering and is carefully packaged in a cleanroom environment. All Valutek wipers are rigorously tested and produced in ISO-compliant facilities, subject to Valutek's inspection and strict process control, to ensure the maintenance of Valutek quality standards and adherence to product specifications.

Features

- 100% continuous filament, double-knit polyester fiber
- Ultrasonic sealed edge for reduced fiber contamination
- Moderate absorbency and abrasion resistance
- Chemically compatible with IPA and other common solvents

Part Number: VTPNWUS

- Extremely 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.

It is designed for critical processing applications that require the highest level of contamination control. Additionally, it is commonly used for cleaning medical device products, applying, removing, cleaning, and disinfecting solutions. It can be steam autoclaved for aseptic environments and is also utilized for tasks like flat panel, optics cleaning, and chips multiprocessing (CMP).

Pre-Saturated Option:

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

Size and Packaging



Part Number	Size	Packaging
VTPNWUS-44	4" x 4" 10 cm x 10 cm	600 ea/bag, 8 bags/case, 4800 ea/case
VTPNWUS-99	9" x 9" 23 cm x 23 cm	150 ea/bag, 8 bags/case, 1200 ea/case
VTPNWUS-1212	12" x 12" 30 cm x 30 cm	75 ea/bag, 10bags/case, 750 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 Ultrasonic-Sealed Polyester Wiper

Part Number: VTPNWUS

VTPNWUS Technical Performance

Attribute	Value	Units	Test Method
Basis Weight	135 ± 5	g/m ²	TAPPI T-410
Absorbency			
Sorptive Efficiency	2	mL/g	
Sorptive Capacity	310	mL/m ²	IEST-RP.CC004.3, Sec 8.1/Sec 8.2
Sorptive Rate	<1	second	
Particle Counts			
LPC: ≥0.5 μm	<10	10 ⁶ X particles/m ²	IEST-RP.CC004.3, Sec 6.1.3/Sec 6.2.1
Non Volatile Residue (NVR)			
DI Water Extractant	0.02	g/m ²	
IPA Extractant	0.1	g/m ²	IEST-RP.CC004.3, Sec 7.1.2
FTIR			
Silicone Oil, Amide & DOP	Not Detectable		IEST-RP.CC004.3, Sec 7.2.1
Extractable Counts (Ions)			
Sodium(Na ⁺)	<0.2 ppm	Fluoride(F)	<0.2 ppm
Potassium(K ⁺)	<0.2 ppm	Nitrite(NO ₂ ⁻)	<0.2 ppm
Calcium(Ca ²⁺)	<0.5 ppm	Bromide(Br ⁻)	<0.2 ppm
Magnesium(Mg ²⁺)	<0.2 ppm	Phosphate(PO ₄ ³⁻)	<0.3 ppm
Ammonium(NH ₄ ⁺)	<0.3 ppm	Chloride(Cl ⁻)	<0.2 ppm
Nitrate(NO ₃ ⁻)	<0.3 ppm	Sulfate(SO ₄ ²⁻)	<0.2 ppm
			IEST-RP.CC004.3, Sec 7.2.1

***Note:** Technical data listed reflects upper/lower limits. Certificates of Analysis available upon request for actual lot-to-lot test data. 36 month lot trend analysis available upon request



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