

# Valutek Ultrasonic Sealed Polyester Wiper



NanoTek  
ISO 3-4 (Class 1-10)



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, 10 bags/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 <sup>2</sup>                           | TAPPI T-410                          |                            |
|   |                |  |                                      |                            |
| Absorbency                              |                |  |                                      |                            |
| Sorptive Efficiency                     | 2              | mL/g                                       | IEST-RP.CC004.4, Sec 9.1/Sec 9.2     |                            |
| Sorptive Capacity                       | 310            | mL/m <sup>2</sup>                          |                                      |                            |
| Sorptive Rate                           | <1             | second                                     |                                      |                            |
| Particle Counts                         |                |  |                                      |                            |
| LPC: ≥0.5 μm                            | <10            | 10 <sup>6</sup> X particles/m <sup>2</sup> | IEST-RP.CC004.4, Sec 6.1.3/Sec 7.2.1 |                            |
| Non Volatile Residue (NVR)              |                |  |                                      |                            |
| DI Water Extractant                     | 0.02           | g/m <sup>2</sup>                           | IEST-RP.CC004.4, Sec 8.1.2           |                            |
| IPA Extractant                          | 0.1            | g/m <sup>2</sup>                           |                                      |                            |
| FTIR                                    |                |  |                                      |                            |
| Silicone Oil, Amide & DOP               | Not Detectable |  | IEST-RP.CC004.4, Sec 8.2.1           |                            |
| Extractable Counts (Ions)               |                |  |                                      |                            |
| Sodium(Na <sup>+</sup> )                | <0.2 ppm       | Fluoride(F)                                | <0.2 ppm                             | IEST-RP.CC004.4, Sec 8.2.2 |
| Potassium(K <sup>+</sup> )              | <0.2 ppm       | Nitrite(No <sub>2</sub> <sup>-</sup> )     | <0.2 ppm                             |                            |
| Calcium(Ca <sup>2+</sup> )              | <0.5 ppm       | Bromide(Br <sup>-</sup> )                  | <0.2 ppm                             |                            |
| Magnesium(Mg <sup>2+</sup> )            | <0.2 ppm       | Phosphate(PO <sub>4</sub> <sup>3-</sup> )  | <0.3 ppm                             |                            |
| Ammonium(NH <sub>4</sub> <sup>+</sup> ) | <0.3 ppm       | Chloride(Cl <sup>-</sup> )                 | <0.2 ppm                             |                            |
| Nitrate(NO <sub>3</sub> <sup>-</sup> )  | <0.3 ppm       | Sulfate(SO <sub>4</sub> <sup>2-</sup> )    | <0.2 ppm                             |                            |

**\*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



Valutek WEST  
Phoenix, AZ - USA

Valutek EAST  
Albany, NY - USA

Valutek ASIA  
Penang - Malaysia

1.800.763.1250

orderdesk@valutek.com

valutek.com

INNOVATIVE SOLUTIONS FOR CRITICAL ENVIRONMENTS