

Valutek 2-Ply Ultrasonic Sealed Polyester Wiper



NanoTek
ISO 3-4 (Class 1-10)



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-Saturated Option:

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

Packaging



- 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 Size and Packaging Configurations

| Part Number | Size | Packaging |
|---------------|---------------------------|--|
| VT2PNWUS-46 | 4" x 6" 10 cm x 15 cm | 600 ea/bag, 6 bags/case, 3,600 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 | 60 ea/bag, 6 bags/case, 360 ea/case |

VT2PNWUS Technical Performance

| Attribute | Value | Units | Test Method |
|--------------|----------|------------------|-------------|
| Basis Weight | 240 ± 10 | g/m ² | TAPPI T-410 |

Absorbency

| | | | |
|-------------------|-----|-------------------|----------------------------------|
| Sorptive Capacity | 700 | mL/m ² | IEST-RP.CC004.4, Sec 9.1/Sec 9.2 |
| Sorptive Rate | <2 | second | |

Particle Counts

| | | | |
|--------------|-----|--|--------------------------------------|
| LPC: ≥0.5 µm | <10 | 10 ⁶ X particles/m ² | IEST-RP.CC004.4, Sec 7.1.3/Sec 7.2.1 |
|--------------|-----|--|--------------------------------------|

Non Volatile Residue (NVR)

| | | | |
|---------------------|------|------------------|----------------------------|
| DI Water Extractant | 0.05 | g/m ² | IEST-RP.CC004.4, Sec 8.1.2 |
| IPA Extractant | 0.2 | g/m ² | |

FTIR

| | | | |
|---------------------------|----------------|----------------------------|--|
| Silicone Oil, Amide & DOP | Not Detectable | IEST-RP.CC004.4, Sec 8.2.1 | |
|---------------------------|----------------|----------------------------|--|

Extractable Counts (Ions)

| | | | | |
|------------------------------|----------|---|----------|----------------------------|
| Sodium(Na ⁺) | <0.2 ppm | Nitrate(NO ₃ ⁻) | <0.3 ppm | IEST-RP.CC004.4, Sec 8.2.2 |
| Potassium(K ⁺) | <0.2 ppm | Nitrite(NO ₂ ⁻) | <0.2 ppm | |
| Calcium(Ca ²⁺) | <0.5 ppm | Chloride(Cl ⁻) | <0.2 ppm | |
| Magnesium(Mg ²⁺) | <0.2 ppm | Sulfate(SO ₄ ²⁻) | <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.

