



NanoTek
ISO 3-4 (Class 1-10)

Valutek Pre-Saturated Laser Sealed Polyester Wiper



Valutek's pre-saturated polyester wiper is crafted from 100% continuous filament polyester fabric, pre-wetted with a blend of isopropyl alcohol and DI water.

This pre-saturated format enhances the wiper's absorbent capacity and effectiveness, while also reducing airborne contamination when compared to traditional solvent bottle dispensers, sprays, and spills.

All Valutek pre-saturated wipers are mixed and cleanroom vacuum sealed under documented inspection and process control to meet Valutek quality standards and product specifications.

Part Number: VTPNWLSI

Features

- 100% continuous filament, double-knit polyester
- Laser-sealed (thermally sealed) edges to minimize fiber contamination.
- Pre-saturated with specified IPA/DI Water concentrations to achieve a 38% saturation level.
- Comprised of 99.99% VLSI grade IPA mixed with 18 megohm DI water for unparalleled assayed purity.
- Available in both reusable pail packaging and refill pack packaging options.
- The pre-saturated solution enhances both cleaning efficiency and cleaning protocol consistency.
- Extremely low levels of particles, fibers, ions, and extractable.

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 product is specifically designed for cleaning critical surfaces in environments where strict control of flammable solvents and their concentrations is essential. The various IPA blend levels it offers are well-suited for effectively removing different cleaning and disinfecting residues in regulated environments.

- 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



NanoTek
ISO 3-4 (Class I-10)

Valutek Pre-Wetted Laser-Sealed Polyester Wiper

Part Number: VTPNWLSI

VTPNWLSI Sizes, IPA Concentration Percentage and Packaging



Reusable Pail Package

| Part Number | Size | IPA / DI H ₂ O (%) | Packaging |
|-----------------|-------------------------|-------------------------------|--------------------------------------|
| VTPNWLSI06-99 | 9" x 9" 23 cm x 23 cm | 6/94 | 150 ea/bag, 2 bags/case, 300 ea/case |
| VTPNWLSI10-99 | 9" x 9" 23 cm x 23 cm | 10/90 | 150 ea/bag, 2 bags/case, 300 ea/case |
| VTPNWLSI50-99 | 9" x 9" 23 cm x 23 cm | 50/50 | 150 ea/bag, 2 bags/case, 300 ea/case |
| VTPNWLSI70-99 | 9" x 9" 23 cm x 23 cm | 70/30 | 150 ea/bag, 2 bags/case, 300 ea/case |
| VTPNWLSI70-1212 | 9" x 9" 30 cm x 30 cm | 70/30 | 120 ea/bag, 2 bags/case, 240 ea/case |
| VTPNWLSI90-99 | 9" x 9" 23 cm x 23 cm | 90/10 | 150 ea/bag, 2 bags/case, 300 ea/case |
| VTPNWLSI99-99 | 9" x 9" 23 cm x 23 cm | 99/1 | 150 ea/bag, 2 bags/case, 300 ea/case |
| VTPNWLSI100-99 | 9" x 9" 23 cm x 23 cm | 100/0 | 150 ea/bag, 2 bags/case, 300 ea/case |

| Part Number | Size | IPA / DI H ₂ O (%) | Packaging |
|-----------------|-------------------------|-------------------------------|--|
| VTPNWLSI06R-99 | 9" x 9" 23 cm x 23 cm | 6/94 | 75ea/bag, 2bags/pack, 4packs/case, 600 ea/case |
| VTPNWLSI10R-99 | 9" x 9" 23 cm x 23 cm | 10/90 | 75ea/bag, 2bags/pack, 4packs/case, 600 ea/case |
| VTPNWLSI50R-99 | 9" x 9" 23 cm x 23 cm | 50/50 | 75ea/bag, 2bags/pack, 4packs/case, 600 ea/case |
| VTPNWLSI70R-99 | 9" x 9" 23 cm x 23 cm | 70/30 | 75ea/bag, 2bags/pack, 4packs/case, 600 ea/case |
| VTPNWLSI90R-99 | 9" x 9" 23 cm x 23 cm | 90/10 | 75ea/bag, 2bags/pack, 4packs/case, 600 ea/case |
| VTPNWLSI99R-99 | 9" x 9" 23 cm x 23 cm | 99/1 | 75ea/bag, 2bags/pack, 4packs/case, 600 ea/case |
| VTPNWLSI100R-99 | 9" x 9" 23 cm x 23 cm | 100/0 | 75ea/bag, 2bags/pack, 4packs/case, 600 ea/case |



Refill Pack Package

VTPNWLSI Technical Performance (In Dry State)

| Attribute | | Value | | Units | | Test Method | |
|---|----------|---|----------|--|--|--------------------------------------|--|
| Basis Weight | | 135 ± 5 | | g/m ² | | TAPPI T-410 | |
| Absorbency | | | | | | | |
| Sorptive Efficiency | | 2 | | mL/g | | IEST-RP.CC004.3, Sec 8.1/Sec 8.2 | |
| Sorptive Capacity | | 310 | | mL/m 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 | | IEST-RP.CC004.3, Sec 7.1.2 | |
| IPA Extractant | | 0.1 | | g/m ² | | | |
| Extractable Counts (Ions) | | | | | | | |
| Sodium(Na ⁺) | <0.2 ppm | Fluoride(F ⁻) | <0.2 ppm | IEST-RP.CC004.3, Sec 7.2.2 | | | |
| 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 | | | | |

***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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