Valutek Lightweight Laser-Sealed Polyester Wiper





Valutek's lightweight, laser-sealed polyester wiper is constructed from 100% lightweight continuous filament polyester in a double-knit, no-run, interlock pattern with a laser-sealed edge.

This wiper is ultraclean, highly absorbent, and has critically low levels of particulate and extractable counts. Laundered and packaged in a cleanroom.

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

Features

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

Part Number: VTPNWLWLS

- Extremely low levels of particulate and extractable counts
- Light-weight material reduces both actual cost and landfill waste impact
- 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 also commonly utilized in a wide variety of applications, including cleaning medical device products, cleaning video displays, cleaning instrument panels, and general wiping and cleaning in the semiconductor and microelectronics industry application requirements.

Pre-Saturated Option:

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

Size and Packaging





Part Number	Size	Packaging
VTPNWLWLS-99	9" x 9" 23 cm x 23 cm	150 ea/bag, 8 bags/case, 1200 ea/case
VTPNWLWLS-1212	12" x 12" 30 cm x 30 cm	75 ea/bag, 5 bags/case, 375 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.

















INNOVATIVE SOLUTIONS FOR CRITICAL ENVIRONMENTS

Valutek Ligthweight Laser-Sealed Polyester Wiper Part Number: VTPNWLWLS



VTPNWLWLS Technical Performance

Physical Attribute	Value	Units	Test Method
Basis Weight SPEC	120 ± 10	g/m²	TAPPI T-410
Absorbency SPEC			
Sorptive Efficiency	2	mL/g	
Sorptive Capacity	310	mL/m²	IEST-RP.CC004.4, Sec 9.1/Sec 9.2
Sorptive Rate	4	second	
Cleanliness Attribute	SPEC*	TPV**	Test Method
Particle Counts			
LPC: ≥0.5 µm (m²)	< 10 X 10 ⁸ /m ²	7.27 X 10 ⁶ /m ²	
LPC: ≥0.5 µm (cm²)	< 1.0 X 10 ³ /cm ²	0.727 X 10³/cm²	IEST-RP.CC004.4, Sec 7.1.3/Sec 7.2.1
Fiber Counts			
Fibers: ≥ 100 µm (m²)	< 250 /m²	175/m²	1507 PD 000044 0 - 310/2 - 300
Fibers: ≥ 100 µm (cm²)	< 0.025 /cm²	0.0175 /cm²	IEST-RP.CC004.4, Sec 7.1.3/Sec 7.2.2
Non Volatile Residue (NVR)			
DI Water Extractant	< 0.02 g/m²	0.01 g/m²	JEST DD 000044 Can 010
IPA Extractant	< 0.10 g/m²	0.05 g/m²	IEST-RP.CC004.4, Sec 8.1.2
FTIR			
Silicone Oil, Amide & DOP	Not Detectable	Not Detectable	IEST-RP.CC004.4, Sec 8.21
Extractable Counts (lons)			
Sodium(Na+)	<0.2 ppm	0.01 ppm	
Potassium(K+)	<0.2 ppm	0.01 ppm	
Calcium(Ca ²⁺)	<0.5 ppm	0.02 ppm	
Magnesium(Mg²+)	<0.2 ppm	0.04 ppm	IEST-RP.CC004.4, Sec 8.2.2
Ammonium(NH₄+)	<0.3 ppm	0.04 ppm	
Nitrate(NO ₃ -)	<0.3 ppm	0.04 ppm	
Fluoride(F)	<0.2 ppm	0 ppm	
Nitrite(No ₂ -)	<0.2 ppm	0 ppm	
Bromide(Br)	<0.2 ppm	0 ppm	
Phosphate(PO ₄ 3-)	<0.3 ppm	0.03 ppm	
Chloride(Cl ⁻)	<0.2 ppm	0.04 ppm	

Notes:

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



^{*}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.