

Valutek Laser-Sealed Polyester Wiper



NanoTek
ISO 3-4 (Class 1-10)



Laser Sealed Edge

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

This wiper is exceptionally clean and boasts high absorbency, featuring critically 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, ensuring the maintenance of Valutek quality standards and adherence to product specifications.

Features

- 100% continuous filament, double-knit polyester fiber
- Laser sealed (thermally sealed) edge for reduced fiber contamination

Part Number: VTPNWLS

- Moderate absorbency and abrasion resistance
- Chemically compatible with IPA and other common solvents
- 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.

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.

Pre-Saturated Option:

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

Size and Packaging



Part Number	Size	Packaging
VTPNWLS-44	4" x 4" 10 cm x 10 cm	600 ea/bag, 8 bags/case, 4800 ea/case
VTPNWLS-99	9" x 9" 23 cm x 23 cm	150 ea/bag, 8 bags/case, 1200 ea/case
VTPNWLS-1212	12" x 12" 30 cm x 30 cm	75 ea/bag, 5 bags/case, 375 ea/case
VTPNWLS-1818	18" x 18" 46 cm x 46 cm	40 ea/bag, 8 bags/case, 320 ea/case
VTPNWLS-2020	20" x 20" 51 cm x 51 cm	100 ea/bag, 2 bags/case, 200 ea/case
VTPNWLS-2626	26" x 26" 66 cm x 66 cm	50 ea/bag, 3 bags/case, 150 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 Laser-Sealed Polyester Wiper

Part Number: VTPNWLS

VTPNWLS Technical Performance

Attribute		Value	Units	Test Method
Basis Weight		135 ± 5	g/m²	TAPPI T-410
Absorbency				
Sorptive Efficiency		2	mL/g	IEST-RP.CC004.3, Sec 8.1/Sec 8.2
Sorptive Capacity		310	mL/m²	
Sorptive Rate		<1	second	
Particle Counts				
LPC: ≥0.5 µm		<10	10 ⁶ X particles/m²	IEST-RP.CC004.3, Sec 6.1.3/Sec 6.2.1
Non Volatile Residue (NVR)				
DI Water Extractant		0.02	g/m²	IEST-RP.CC004.3, Sec 7.1.2
IPA Extractant		0.1	g/m²	
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	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.

