

# 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/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 7.1.3/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.

