Valutek Laser-Sealed Polyester Wiper

NanoTek
ISO 3-4 (Class 1-10)

Part Number: VTPNWLS

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 stri process control, ensuring the maintenance of Valutek quality stan-dards and adherence to 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
- Extremely low levels of particulate and extractable counts
- Available in a variety of sizes to suit most applica-tions

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, 480 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.

Valutek Laser-Sealed Polyester Wiper

Part Number: VTPNWLS

NanoTek
ISO 3-4 (Class 1-10)

VTPNWLS Technical Performance

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	
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.