Valutek

Polyester Wiper

MicroTek

ISO 5-6 (Class 100- 1,000)

Cold Knife **Cut** Edge

Valutek's standard weight polyester wiper is constructed from 100% continuous filament polyester in a double-knit, no-run, interlock pattern with cold knife-cut edges. This wiper is a clean and moderately absorbent wiper with 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 quality standards and product specifications.

Features

- µ 100% continuous filament, double-knit polyester fiber
- µ Cold knife cut edge
- µ Moderate absorbency and abrasion resistance

Part Number: VTPNW

- µ Chemical compatible with IPA and other common solvents
- µ Low levels of particulate and extractable counts
- µ Available in a variety of sizes to suit most applications

Application

As part of the Valutek Microtek product family, this product is recommended for use in cleanroom Class 100-1,000 (ISO 5-6) critical environments.

It is commonly used in a wide range of applications, including fabs and suite construction breakdown cleaning, equipment wrapping, wiping, stencil and print roll cleaning, cleaning medical devices, and autoclavable/sterile product cleaning for aseptic applications.

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

Size and Packaging

Part Number	Size	Packaging
VTPNW-44	4" x 4" | 10 cm x 10 cm	600 ea/bag, 8 bags/case, 4800 ea/case
VTPNW-99	9" x 9" | 23 cm x 23 cm	150 ea/bag, 8 bags/case, 1200 ea/case
VTPNW-1212	12" x 12" | 30 cm x 30 cm	75 ea/bag, 5 bags/case, 375 ea/case
VTPNW-2020	20" x 20" | 51 cm x 51 cm	100 ea/bag, 2 bags/case, 200 ea/case
VTPNW-2144	21" x 44" | 53 cm x 112 cm	75 ea/bag, 2 bags/case, 100 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 Standard Weight Polyester Wiper

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ISO 5-6 (Class 100-

VTPNW Technical Performance

Physical Attribute	Value	Units	Test Method
Basis Weight SPEC	135 ± 5	g/m²	TAPPI T-410
Absorbency SPEC			
Sorptive Efficiency	2	mL/g	IEST-RP.CC004.4, Sec 9.1/Sec 8.2
Sorptive Capacity	310	mL/m²	
Sorptive Rate	<1	second	

Cleanliness Attribute	SPEC*	TPV**	Test Method
Particle Counts			
LPC: ≥0.5 µm (m^2)	< 11 X 10^6 /m^2	4.84 X 10^6 /m^2	IEST-RP.CC004.4, Sec 7.1.3/Sec 7.2.1
LPC: ≥0.5 µm (cm^2)	< 1.1 X 10^3 /cm^2	0.484 X 10^3 /cm^2	
Fiber Counts			
Fibers: ≥ 100 µm (m^2)	< 2500 /m^2	1500 /m^2	IEST-RP.CC004.4, Sec 7.1.3/Sec 7.2.2
Fibers: ≥ 100 µm (cm^2)	< 0.25 /cm^2	0.15 /cm^2	
Non Volatile Residue (NVR)			
DI Water Extractant	< 0.02 g/m^2	0.01 g/m^2	IEST-RP.CC004.4, Sec 8.1.2
IPA Extractant	< 0.10 g/m^2	0.05 g/m^2	
FTIR			
Silicone Oil, Amide & DOP	Not Detectable	Not Detectable	IEST-RP.CC004.4, Sec 8.2.1
Extractable Counts (Ions)			
Sodium(Na^+)	<0.2 ppm	0.03 ppm	IEST-RP.CC004.4, Sec 8.2.2
Potassium(K^+)	<0.2 ppm	0.05 ppm	
Calcium(Ca^{2+})	<0.5 ppm	0.07 ppm	
Magnesium(Mg^{2+})	<0.2 ppm	0.02 ppm	
Ammonium(NH_4^+)	<0.3 ppm	0.03 ppm	
Nitrate(NO_3^-)	<0.3 ppm	0 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	0.01 ppm	
Chloride(Cl^-)	<0.2 ppm	0.01 ppm	
Sulfate(SO_4^{2-})	<0.2 ppm	0.01 ppm	

Notes: **Certificates of Analysis** available upon request for actual lot-to-lot test data. Full **36 month lot trend analysis r**eport 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.

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