

OPTO-WIPES™

Trademark of Opto-Alignment Technology, Inc.

Lint Free
Precision Lens Cleaning Wipes**ADVANTAGES**

- **Proven results** – In precision lens assembly, coating operations, and ophthalmic manufacturing.
- **Economical** – Only pennies per sheet.
- **Re-Useable.**
- **Strong** hydro-entangled polyester and cellulose fibers – Designed for clean room environments.
- **Special Texture** – Designed for compliance, softness and trapping of particles and residue.

FEATURES

- **Soft** – Super-soft fibers prevent scratching precision surfaces. Thick material cushions wiping action and conforms to surface for easy cleaning.
- **Highly Absorbant** – Soaks up solvents and retains them with ideal rate of evaporation for streak-free cleaning of polished and coated glass surfaces.
- **Clean** – Lint-free for use under laminar flow hoods and in clean room environments (Class 100).
- **Durable** – Strong fiber matrix maintains integrity when wet.
- **Blue or White** – Light fibers retain and withstand strong solvents like methyl ethyl ketone (MEK), methylene chloride (MEC), acetone, or alcohol. No bleaches. No bleeding.
- **Efficient** – Particle trapping matrix lifts particles and residue away from surface and locks them up for cleaning with a single motion.

STOCK SIZES

<u>Part No.</u>	<u>Size</u>	<u>Color</u>	<u>Quantity</u>
LCW-303	1-7/8" x 3-3/4"	Blue	800 wipes/packet
LCW-304	3-3/4" x 3-3/4"	Blue	50 wipes/packet
LCW-305	3-3/4" x 3-3/4"	Blue	200 wipes/packet
LCW-306	5-3/4" x 5-3/4"	Blue	150 wipes/packet
LCW-318	5-3/4" x 11-1/2"	Blue	100 wipes/packet
LCW-324	11-1/2" x 11-1/2"	Blue	100 wipes/packet
LCW-330	11-1/2" x 11-1/2"	Blue	30 wipes/packet
LCW-404	3-3/4" x 3-3/4"	White	50 wipes/packet
LCW-405	3-3/4" x 3-3/4"	White	200 wipes/packet
LCW-406	5-3/4" x 5-3/4"	White	150 wipes/packet
LCW-424	11-1/2" x 11-1/2"	White	100 wipes/packet

* Quantity discounts are available for 7 packets, 12 packets or larger quantities.

LCW-300 (Blue) - TECHNICAL DATA

PERFORMANCE CHARACTERISTICS

CATEGORY	PERFORMANCE	TEST PROCEDURE
Color	Blue	N/A
Basis Weight	66 g/m ²	FTMS 191-5040
Absorption Capacity for Water	306 ml/m ²	TAPPI 432
Absorption Rate of Water	3 seconds, full capacity	TAPPI 432
Tensile Strength		
Along primary grain	18.2 kg	ASTM 1682
Along secondary grain	13.5 kg	ASTM 1682

EXTRACTABLE NONVOLATILE RESIDUES

SOLVENT	AMOUNT OF RESIDUE	TEST PROCEDURE
Deionized Water	0.09 g/m ²	EXT-P-1
1,1,1 Trichloroethane	0.06 g/m ²	EXT-P-1
Isopropyl Alcohol	0.03 g/m ²	EXT-P-1
Freon®TF	0.01 g/m ²	EXT-P-1

IONS EXTRACTABLE IN DEIONIZED WATER

SPECIES	CONCENTRATION	TEST PROCEDURE
Sodium	100 ppm	EXT-P-2
Chlorine	50 ppm	EXT-P-2

PARTICULATE EMISSION

SIZE	CONCENTRATION	TEST PROCEDURE
>/= 0.5 microns	90x10 ⁶ particles/m ²	Water Immersion

LCW-400 (White) - TECHNICAL DATA

PERFORMANCE CHARACTERISTICS

CATEGORY	PERFORMANCE	TEST PROCEDURE
Color	White	N/A
Basis Weight	65 g/m ²	FTMS 191-5041
Absorption Capacity for Water	244 ml/m ²	TAPPI 433
Absorption Rate of Water	3 seconds, full capacity	TAPPI 432
Tensile Strength		
Along primary grain	15.6 kg	ASTM 1684
Along secondary grain	9.5 kg	ASTM 1684

EXTRACTABLE NONVOLATILE RESIDUES

SOLVENT	AMOUNT OF RESIDUE	TEST PROCEDURE
Deionized Water	0.01 g/m ²	EXT-P-1
1,1,1 Trichloroethane	0.02 g/m ²	EXT-P-1
Isopropyl Alcohol	0.02 g/m ²	EXT-P-1
Freon®TF	0.016 g/m ²	EXT-P-1

IONS EXTRACTABLE IN DEIONIZED WATER

SPECIES	CONCENTRATION	TEST PROCEDURE
Sodium	10 ppm	EXT-P-2
Chlorine	9 ppm	EXT-P-2

PARTICULATE EMISSION

SIZE	CONCENTRATION	TEST PROCEDURE
>/= 0.5 microns	60x10 ⁶ particles/m ²	Water Immersion