

OPTO-WIPES™

Trademark of Opto-Alignment Technology, Inc.

Lint Free

Precision Lens Cleaning Wipes

ADVANTAGES

- **Proven results** – Used 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.
- **Clean** – Lint-free for use under laminar flow hoods and in clean room environments (Class 100).
- **Highly Absorbent** – Soaks up solvents and retains them with ideal rate of evaporation for streak-free cleaning of polished and coated glass surfaces.
- **Durable Fiber Matrix** – Maintains integrity when wet.
- **Efficient** – Particle trapping matrix lifts particles and residue away from surface and locks them up for cleaning with a single motion.
- **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.

Stock Sizes

Size	Color	Part No.	Quantity
1-7/8" x 1-7/8"	Blue	LCW-302	400 wipes/pckt
1-7/8" x 3-3/4"	Blue	LCW-303	800 wipes/pckt
2-7/8" x 2-7/8"	Blue	LCW-333	600 wipes/pckt
3-3/4" x 3-3/4"	Blue	LCW-304	200 wipes/pckt
3-3/4" x 3-3/4"	Blue	LCW-305	50 wipes/pckt
5-3/4" x 5-3/4"	Blue	LCW-306	150 wipes/pckt
5-3/4" x 11-1/2"	Blue	LCW-318	100 wipes/pckt
11-1/2" x 11-1/2"	Blue	LCW-324	100 wipes/pckt
11-1/2" x 11-1/2"	Blue	LCW-330	30 wipes/pckt
14-1/2" x 8-3/4"	Blue	LCW-342	100 wipes/pckt
11-1/2" x 17-1/2"	Blue	LCW-348	50 wipes/pckt
1-7/8" x 1-7/8"	White	LCW-402	400 wipes/pckt
1-7/8" x 3-3/4"	White	LCW-403	800 wipes/pckt
3-3/4" x 3-3/4"	White	LCW-404	200 wipes/pckt
3-3/4" x 3-3/4"	White	LCW-405	50 wipes/pckt

5-3/4" x 5-3/4"	White	LCW-406	150 wipes/pckt
5-3/4" x 11-1/2"	White	LCW-418	100 wipes/pckt
11-1/2" x 11-1/2"	White	LCW-424	100 wipes/pckt
11-1/2" x 17-1/2"	White	LCW-448	50 wipes/pckt

* 12 packets per case; multi-case quantity discounts available

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