



The VOC Free Cleanroom Wiper



Description

MiraSAT™ with Ultrapure Water (UPW) incorporates Foamtec's industry leading MiraWIPE™ Microfiber sealed edge wiper to enable cleanroom technicians to achieve 100% VOC Free wiping. This wiper completely eliminates flammable solvents including IPA from cleanroom wiping procedures. MiraSAT™ is constructed from a microfiber fabric with a unique woven pattern that allows operators to dislodge, entrap and remove contaminants while leaving surfaces clean and dry using only Ultrapure Water. The weave and sealed edge provide unsurpassed resistance to abrasion and tearing to reduce in-use particle and fiber generation. Manufactured and processed for ISO 3 and higher cleanroom environments. Each pack contains 20 MiraSAT™ wipers and is double bagged to aid cleanroom entry protocols.

Process Benefits

Enabled by MiraSAT™ Pre-Wetted with Ultrapure Water

- Protects VOC sensitive fab modules such as lithography, metrology and CVD from solvent fumes
- Industry leading abrasion resistant fabric reduces risks of fiber and particle excursions associated with fab wipers
- Woven microfiber fabric enables improved contamination pickup leading to faster PM's and improved equipment uptime
- Even, consistent wetting of wiper enables excellent first pass cleaning results and reduced cleaning time
- Foamtec's state of the art processing facilities produces a wiper optimized for use in the most advanced wafer fabs

Environmental Health & Safety Benefits

MiraSAT™ Pre-Wetted with Ultrapure Water Vs. IPA Saturated Wipes

- Reduce flammable chemical storage, solvent squirt bottles, and eliminate the fire risk during cleanroom wipe downs
- Eliminate fugitive VOC emissions and air permit implications associated with solvent wiping
- Eliminate personnel exposure to isopropyl alcohol during cleanroom wipe downs



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Applications

- For use in ISO Class 3 and higher cleanrooms
- Cleaning of hi-vac process chambers and robotics in flat panel display and wafer fabs
- Cleaning VOC sensitive process equipment in lithography, CVD and metrology modules
- Cleaning baked on resist and developer from lithography tracks
- Final wipedown of sensitive components such as EFEM's, electrostatic chucks, VAT valves and gas dispersion plates
- Equipment PM's and wetcleans where the elimination of VOC's and flammable solvents are required

Technical Data

Anion (ppm)						
Fluoride	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate
0.52	0.03	0.43	< 0.5	0.12	< 0.5	0.02

Cation (ppm)					
Lithium	Sodium	Ammonium	Potassium	Magnesium	Calcium
< 0.5	0.22	< 0.5	< 0.5	0.66	4.18

NVR (mg/g)		FT-IR (ng/g)		LPC at $\geq 0.5 \mu\text{m}$	VOC
In DI Water	In IPA	Silicone	Amide	DOP	(ppb)
≤ 0.20	≤ 0.82	Not Detected		< 5000	< 35

Note: The data in this table represent typical analyses of these wipers after seven days of saturation. These are not specifications.

Ordering Information

Product	Part No.	Description	Size	Units/Bag	Bags/Case
MiraSAT™	HT5790S-EHS	Cleanroom Microfiber Wiper Presaturated w/ Ultrapure Water	9" x 9"	20 Wipers/Bag	20 Bags/Case



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