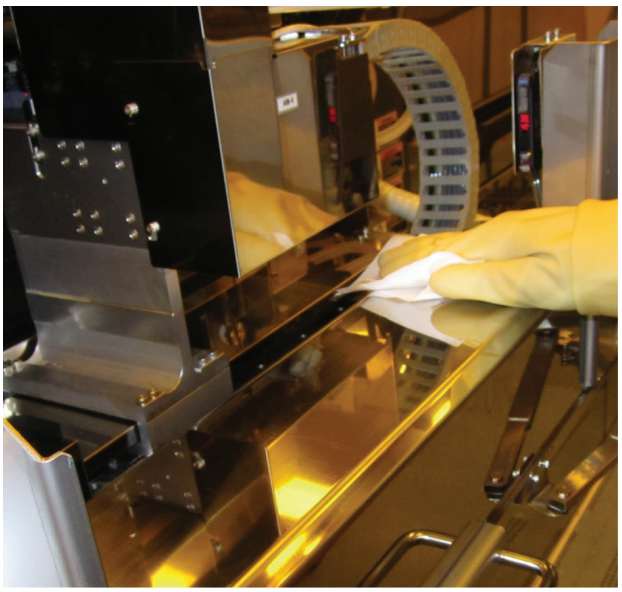
MiraSAT™ 10/90

The Ultra Low VOC Cleanroom Wiper



Description

MiraSAT™ 10/90 is pre-saturated with 10% Semiconductor Grade IPA & 90% Ultrapure Water(UPW) & incorporates Foamtec's industry-leading MiraWIPE™ Microfiber sealed edge wiper. The unique woven microfiber requires only 7ml of solution to be uniformly dampened which enables scrubbing like cleaning action to dislodge, entrap and remove contaminants while reducing IPA consumption by 20-50%*. MiraSAT's super strong weave and sealed edge minimize shedding of fibers even on textured surfaces making it ideal for equipment cleaning tasks. MiraSAT™ is manufactured and processed in an ISO 5 cleanroom. Each pack contains 20 MiraSAT™ wipers and is double bagged to aid cleanroom entry protocols.

Process Benefits

Enabled by MiraSAT™ 10/90

- Significantly reduces VOC's for sensitive fab modules such as lithography, metrology and CVD
- Unsurpassed abrasion & snag resistance minimizes scratch defects and particle excursions associated with fab wipers
- For equipment PM's, the lightly dampened, woven microfiber fabric is production proven to improve equipment uptime while reducing expensive test wafer usage.
- Foamtec's state of the art ISO 5 processing facilities produces a wiper optimized for use in the most advanced wafer fabs
- Eliminates contamination risks associated with IPA squirt bottles

Environmental Health & Safety Benefits

Enabled by MiraSAT™ 10/90

- Reduce flammable chemical storage, solvent squirt bottles, and handling of IPA in the cleanroom
- Reduce fugitive VOC emissions and air permit implications associated with solvent wiping
- Reduce personnel exposure to isopropyl alcohol during cleanroom wipe downs

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*Compared to existing IPA presaturated wipers

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The Ultra Low VOC Cleanroom Wiper

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
0.11	0.04	0.24	0.00	0.18	0.00	0.04

Cation (ppm)					
Lithium	Sodium	Ammonium	Potassium	Magnesium	Calcium
0.00	0.15	0.00	0.00	1.60	6.93

NVR (mg/g)		FT-IR (ng/g)			LPC at ≥ 0.5 µm
In DI Water	In IPA	Silicone	Amide	DOP	(particles/cm^2)
0.57	0.65	Not Detected			< 8000

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™	HT5790S19	Cleanroom Microfiber Wiper Presaturated w/ 10% IPA & 90% Ultrapure Water	9" x 9"	20 Wipers/Bag	20 Bags/Case

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