



VAPORSORB™ CSP-32 CHEMICAL AIR FILTERS

Advanced optics and resist protection

Overview

Entegris' VaporSorb™ CSP-32 chemical air filters offer advanced protection for exposure tool optics and photoresists. CSP-32 filters contain a unique combination of carbon and polymeric chemical media that targets and removes molecular acids (such as HCL, H₂SO₄, and HNO₃), acid forming species (such as SO₂), molecular bases (such as NH₃, NMP, and amines), and condensable organic compounds defined as those with boiling points above 150°C.

Designed for use in Entegris' custom filter housings such as the E1250, Ex2600, and E3000, CSP-32 filters are used in serial array to provide unparalleled protection against unplanned and elevated contamination events, including accidental spills of solvents and developer chemicals.



Exposure tool chemical air filters

Features and Benefits

- Highly activated carbon plus advanced polymeric media removes acids, bases and condensable organics in each filter cell
- Pleated filter design in rigid, deep frame optimizes active component surface area for maximum utilization and efficiency
- Low pressure drop enables serial filter layout and multiple levels of protection
- Interstack sample ports and serial filter arrangement allow filter performance monitoring without jeopardizing photoresist or exposed optical surfaces

CSP-32 PERFORMANCE

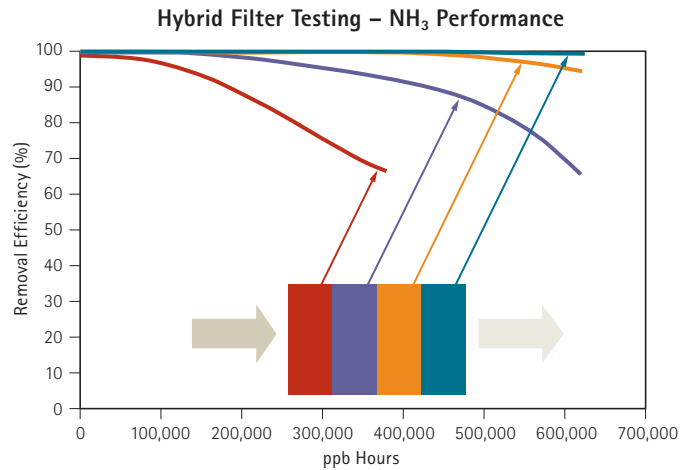
Contaminant	Filter Capture	Removal Efficiency	Typical Lifetime
Bases (e.g. NH ₃ , NMP, Amines)	Excellent	>99%	>2 years**
Acids and acid-forming species (e.g., HCl, HNO ₂ , H ₂ SO ₄ , HNO ₃ , SO ₂)	Excellent	>99%	>2 years**
Condensable organics* (e.g., Toluene, HMDSO, PGMEA)	Excellent	>99%	>2 years**

*Boiling point >150°C and/or molecular weight >120

**Lifetimes are given for 99% removal efficiency (RE). Running to 90% RE yields much higher lifetimes.
Based on typical cleanroom AMC levels: acids ≤ 1 ppb; bases ≤ 10 ppb and condensable organics ≤ 20 ppb.

Performance Data

- >99% initial removal efficiency of targeted airborne molecular contaminants: acids, acid forming species, molecular bases and amines and condensable organic compounds.
- >24 months of filter life when used in Entegris filter housings at rated flow and typical clean-room ambient molecular contamination levels. Check with Entegris for your application.



Ordering Information

Filter Set Part No.	Description	Cabinet Part No.
ESI004670-01	Set of 3 chemical filters for E1250 cabinet	ESI000980
ESI004842-01	Set of 12 chemical filters for E2600 cabinet	ESI004802-01
ESI004421-01	Set of 12 chemical filters for E3000 cabinet	ESI002117-BX

For More Information

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit www.entegris.com and select the Customer Service link for the center nearest you.

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