

# VaporSorb™ CSP-32 Chemical Air Filters

*Advanced optics and resist protection*

Entegris is a leader in airborne molecular contamination (AMC) control for the microelectronics industry. Our 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, H<sub>2</sub>SO<sub>4</sub>, and HNO<sub>3</sub>), acid forming species (such as SO<sub>2</sub>), molecular bases (such as NH<sub>3</sub>, NMP, and amines), and condensable organic compounds defined as those with boiling point greater than 150°C (302°F) and/or molecular weight greater than 120.

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

## FEATURES & BENEFITS

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



*Exposure tool chemical air filters*

## Performance

CONTAMINANT	FILTER CAPTURE	REMOVAL EFFICIENCY	>2 YEARS**
<b>Bases</b> (e.g. NH <sub>3</sub> , NMP, Amines)	Excellent	>99%	>2 years
<b>Acids and acid-forming species</b> (e.g., HCl, HNO <sub>2</sub> , H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , SO <sub>2</sub> )	Excellent	>99%	>2 years
<b>Condensable organics*</b> (e.g., Toluene, HMDSO, PGMEA)	Excellent	>99%	>2 years

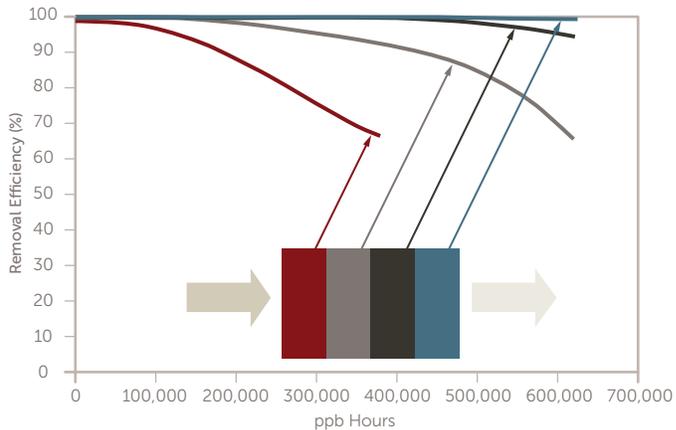
\* Boiling point >150°C (302°C) and/or molecular weight >120.

\*\* 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 cleanroom ambient molecular contamination levels. Check with Entegris for your application.

### Hybrid Filter Testing – NH<sub>3</sub> Performance



## ORDERING INFORMATION

Part number	Description	Cabinet part number
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 [entegris.com](http://entegris.com) and select the [Contact Us](#) link to find the customer service center nearest you.

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