

Poly-Sorb® **Activated Carbon** **Pleated Filters 1", 2" & 4"**



Best in Class!

Poly-Sorb® Activated Carbon Pleated Filters are engineered with superior performance criteria in all facets of molecular air filtration. These carbon pleated filters are one of the most effective means for positive air purification and odor removal. Each Filter's porous microscopic channels act as a purifying, absorptive net to capture odors and impurities, and entrap them on the activated carbon's vast surface network.

As a part of the most advanced and innovative line of HVAC filtration products, the **Poly-Sorb®** Activated Carbon Pleated Filter combines a low resistance to airflow at various impregnation densities and filter depth. These activated carbon pleated filters provide an economical and medium efficiency for a variety of applications.

The **Poly-Sorb®** Activated Carbon Pleated Filter is backed by the outstanding customer service and on-time delivery that customers have come to expect from Columbus Industries, Inc.

Description and Benefits

Poly-Sorb® Activated Carbon Pleated Filters are an excellent economical choice for molecular air filtration applications. Each filter utilizes a technologically advanced media that incorporates activated carbon combined with non-woven polyester to provide odor and particulate capture. The activated carbon filter targets applications where odor removal and moderate molecular filtration is desired.

These high-performance **Poly-Sorb®** Activated Carbon products maintain the perfect balance of effectively and efficiently capturing and removing odors, pollutants and particulates from HVAC environments and excellent airflow properties.

The **Poly-Sorb®** Activated Carbon Pleated Filter utilizes a geometrically formed pleat pack. Each pleat pack is further strengthened with expanded metal backer. The pack is then sealed into a heavy-duty, moisture-resistant kraft board frame. The design and construction process combines to produce the best all around carbon performance.

The activated carbon used by Columbus Industries, Inc. is a coconut shell material with an activity level of 60% or more when tested with carbon tetrachloride. The pleated filter is made with synthetic media that is chemically enriched with 200 grams/sq. meter of activated carbon.

Pleated filters are one option in our **Poly-Sorb®** product line. Our **Poly-Sorb®** product line also includes rolls, pads, panels.

Quick Facts

Features:

- Effectively and efficiently captures and removes odors, pollutants, and particulates from HVAC environments
- Provides an economical choice for molecular air filtration applications
- Removes various nuisance odors

Applications:

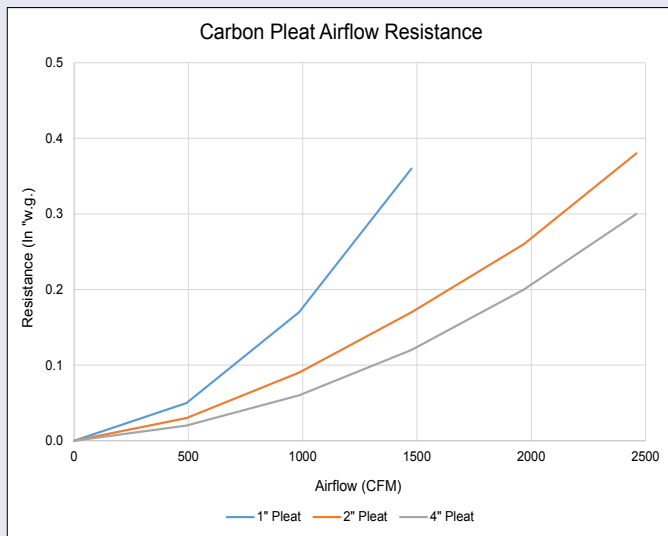
- Commercial Office Buildings
- Industrial facilities
- Government Facilities
- Educational Facilities
- Paint booth/finishing
- Hospitals
- General HVAC Filtration
- Food Processing

Technical Information:

- Available in 1", 2", and 4" depths in a variety of standard sizes
- Tested in accordance with ASHRAE Test Standard 52.2-2007
- UL Standard 900 tested and approved
- 100% mechanical synthetic media
- Temperature rated up to 160°F

Poly-Sorb® Activated Carbon Pleats

Part #	Nominal Size	Initial Resistance @ 250 fpm ("w.g.)	Initial Resistance @ 500 fpm ("w.g.)
P1S8C-1224	12 X 24 X 1	.18	N/A
P1S8C-1620	16 X 20 X 1	.18	N/A
P1S8C-1625	16 X 25 X 1	.18	N/A
P1S8C-1824	18 X 24 X 1	.18	N/A
P1S8C-2020	20 X 20 X 1	.18	N/A
P1S8C-2024	20 X 24 X 1	.18	N/A
P1S8C-2025	20 X 25 X 1	.18	N/A
P1S8C-2424	24 X 24 X 1	.18	N/A
P2S8C-1224	12 X 24 X 2	.09	.25
P2S8C-1620	16 X 20 X 2	.09	.25
P2S8C-1625	16 X 25 X 2	.09	.25
P2S8C-1824	18 X 24 X 2	.09	.25
P2S8C-2020	20 X 20 X 2	.09	.25
P2S8C-2024	20 X 24 X 2	.09	.25
P2S8C-2025	20 X 25 X 2	.09	.25
P2S8C-2424	24 X 24 X 2	.09	.25
P4S8C-1224	12 X 24 X 4	.06	.20
P4S8C-1620	16 X 20 X 4	.06	.20
P4S8C-1625	16 X 25 X 4	.06	.20
P4S8C-1824	18 X 24 X 4	.06	.20
P4S8C-2020	20 X 20 X 4	.06	.20
P4S8C-2024	20 X 24 X 4	.06	.20
P4S8C-2025	20 X 25 X 4	.06	.20
P4S8C-2424	24 X 24 X 4	.06	.20



The substances in the chart below reflect an activity level rating of 4* which has high adsorptive capacity. The activity typically will run 20% or more of the activated carbon's media weight.

Substance	Molecular Weight	Typically Found In:
Methane Series		
Heptane	100.20	Gasoline
Octane	114.23	Gasoline
Decane	142.28	Kerosene
Benzene Series		
Benzene	78.11	Benzol, Paint Solvent & Remover
Xylene	106.16	Solvent
Other Substances		
Naphthalene	128.16	Moth Balls
Phenol	94.11	Plastic Ingredient
Ethyl Alcohol	46.07	Grain Alcohol
Propyl Alcohol	60.09	
Amyl Alcohol	88.15	Fusel Oil
Cresol	108.13	Ingredient of Creosote, Wood Preservative
Menthol	156.26	
Crotonaldehyde	70.09	Solvent, Tear Gas
Butric Acid	88.10	Sweat, Body Odor
Valeric Acid	102.13	Sweat, Body Odor
Caprylic Acid	144.21	Animal Odors
Propyl Acetate	102.13	Lacquer Solvent
Butyl Acetate	116.16	Lacquer Solvent
Ethyl Acrylate	100.11	Apt to Pilymerize
Methyl Mercaptan	48.10	Garlic, Onion, Sewer
Ethyl Mercaptan	63.13	Garlic, Onion, Sewer
Propyl Mercaptan	76.15	Garlic, Onion, Sewer
Carbon Tetrachloride	153.84	Cleaning Fluid, Solvent
Pyridine	79.10	Burning Tobacco
Skatole	131.17	Excreta
Nicotine	162.23	Tobacco
Uric Acid	168.11	Urine
Bromine	159.83	May partially hydrolyze to HBr
Iodine	253.84	May partially hydrolyze to HI

In addition to the chart above, the following substances are also highly effective:

- Adhesives
- Asphalt Fumes
- Diesel Fumes
- Bathroom Smells
- Cleaning Compounds
- Cooking Odors
- Hospital Odors
- Household Smells
- Jet Fuel Fumes
- Kitchen Odors
- Paint & Redecorating Odors



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Reorder #: DST-317
Rev: 3/2015

*Ask for our complete activity recommendation chart from Columbus Industries, Inc. which includes general performance levels from 1-4 (best).