

## **Poly-Sorb® MERV 7 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. (before impregnation) is a coconut shell material with an activity level of 60% of more when tested with carbon tetrachloride.

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:**

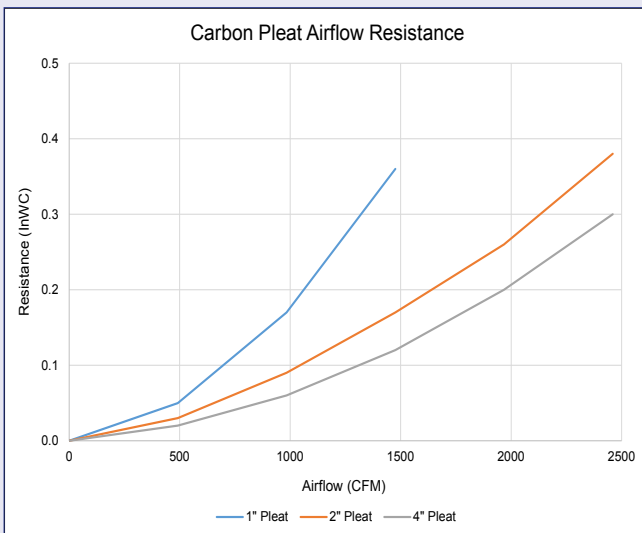
- Commercial Office Buildings
- Industrial facilities
- Government Facilities
- Educational Facilities
- Paint booth/finishing
- Hospitals
- General HVAC Filtration
- Food Processing

#### **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 MERV 7

| 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                                  |



Performance Engineered Air Filter Products  
**CI Columbus Industries, Inc.**

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| Substance                  | Molecular Weight | Highly Effective On:                      |
|----------------------------|------------------|-------------------------------------------|
| <b>Methane Series</b>      |                  |                                           |
| Heptane                    | 100.20           | Gasoline                                  |
| Octane                     | 114.23           | Gasoline                                  |
| Decane                     | 142.28           | Kerosene                                  |
| <b>Benzene Series</b>      |                  |                                           |
| Benzene                    | 78.11            | Benzol, Paint Solvent & Remover           |
| Xylene                     | 106.16           | Solvent                                   |
| <b>Other Substances</b>    |                  |                                           |
| 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 Polymerize                         |
| 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             |
| Adhesives                  |                  |                                           |
| Asphalt Fumes              |                  |                                           |
| Diesel Fumes               |                  |                                           |
| Bathroom Smells            |                  |                                           |
| Cleaning Compounds         |                  |                                           |
| Cooking Odors              |                  |                                           |
| Hospital Odors             |                  |                                           |
| Household Smells           |                  |                                           |
| Jet Fuel Fumes             |                  |                                           |
| Kitchen Odors              |                  |                                           |
| Paint & Redecorating Odors |                  |                                           |

Ask for our complete activity recommendation chart from Columbus Industries, Inc.