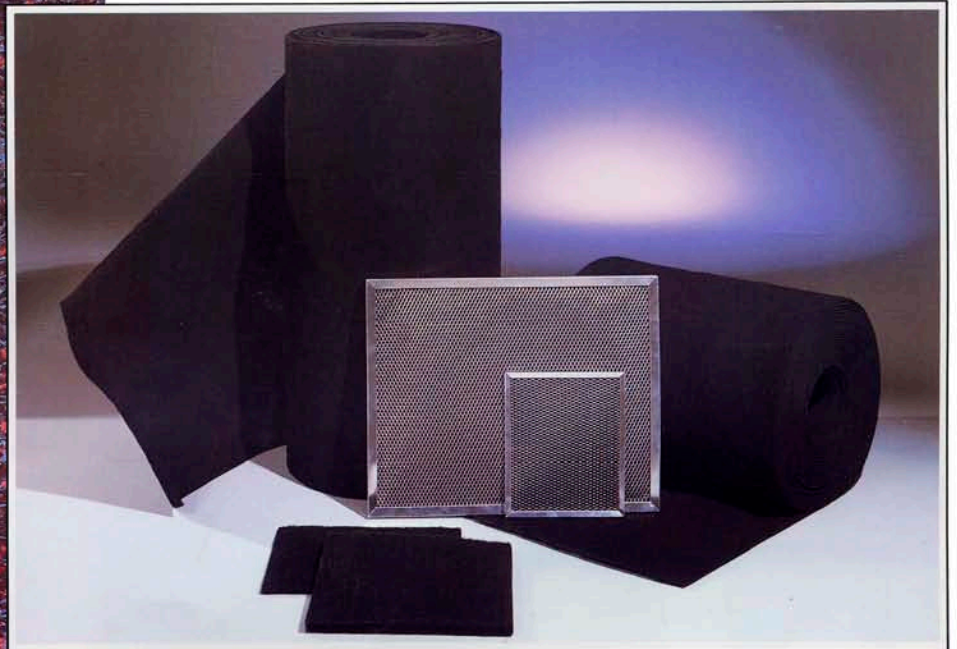


# POLYSORB™

## activated carbon filters

Columbus Industries has been solving unique and demanding needs for filtering systems which effectively trap odors, pollutants and particulates for over 25 years. Now, due to our dedication to research and develop new products that you need, we are able to provide you with one of the industry's most versatile and efficient filtration product lines available — POLYSORB activated carbon filters.



### **POLYSORB combines adsorptive efficiency with advanced and versatile manufacturing methods**

Columbus Industries engineers, manufactures, distributes and markets activated carbon products for a variety of uses worldwide. The high quality activated carbon used in POLYSORB is one of the most naturally porous structures known — one cubic foot provides approximately 200 million square feet of surface area! This gives POLYSORB tremendous adsorptive capacity and allows it to function as an extremely efficient net which snares and traps odors and impurities within its vast network of microscopic channels.

Using a high quality activated carbon is only half of the solution. To have a product that completely meets your demands requires the ability to manufacture and supply POLYSORB in many different forms. We developed the technology which enables us to impregnate various substrates and apply different coatings in a number of standard impregnation densities. Furthermore, we can create a POLYSORB pouch out of impregnated or non-impregnated substrates which can hold granular activated carbon or zeolite (see the following chart).

## AVAILABLE COATINGS

High quality activated carbon or other coatings which complement the effectiveness of the activated carbon with their unique ability to remove various gases.

## SUBSTRATES WHICH CAN BE IMPREGNATED

Non-wovens such as polyester or open-cell foams.

## AVAILABLE FORMS AND SIZES

### Rolls



Manufactured in standard lengths and widths as well as in custom dimensions.

### Cut-to-size pads, die-cut pads



Manufactured to fit your specific size and shape requirements.

### Framed pads



Impregnated substrates can be incorporated with metal frames and grids in standard and made-to-order sizes. The metal frames are available in  $\frac{3}{32}$ " thickness and in nominal thicknesses of  $\frac{3}{8}$ ",  $\frac{1}{2}$ " and 1".

### Pouches



Two impregnated substrate pads can be joined to form a pouch which can hold granular activated carbon or zeolite. The pads which form the pouch can be impregnated on one or both sides. Pouches can also be made with non-impregnated substrate pads.

### Self-supporting inserted frames



A plastic frame can also be inserted to join two impregnated substrate pads. This self-supporting inserted-frame filter can be manufactured using the same impregnation variations and granular combinations as the pouched POLYSORB product.

## IMPREGNATION DENSITIES

All substrates can be impregnated to a variety of impregnation densities (as a percentage of the base media's weight). Many of the products can be manufactured with UL approvals.

## SUBSTRATE THICKNESSES

Non-woven substrates are available in nominal thicknesses of  $\frac{1}{8}$ ",  $\frac{1}{4}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ " and  $\frac{3}{4}$ ".

## Minimal resistance to airflow with all impregnation densities and thicknesses

POLYSORB activated carbon filters use a durable non-woven polyester or open-cell foam base. This combination of high quality activated carbon and base filtering media affords odor and particulate trapping arrestance. This combination further provides minimal resistance to airflow at various impregnation densities and filter thicknesses.

## POLYSORB's efficiency and versatility make it the perfect solution for a wide range of air and other filtration applications

Here are just some of the potential and actual applications for the various POLYSORB products:

### Residential

Rangehood filters  
Room air cleaner filters  
Vacuum cleaner filters  
Central air-conditioner filters  
Furnace filters  
Electronic air cleaner filters

### Commercial\*

Commercial HVAC filters  
Laser printers/copier filters  
Commercial air filters  
Electrical equipment filters for ozone removal

\*Includes but is not limited to airports, convention centers, lounges, restaurants, geriatric health care facilities, banks, hospitals, print shops, bowling alleys and gymnasiums

### Pet Care Products

Aquarium filters  
Enclosed pet box filters

### Other Uses

Vehicle air filtration systems  
Chemical warfare suits  
Respirators/face masks  
Paint fume filtration systems  
Refrigerator/freezer filtration systems  
Hospital air purification systems

Contact your Columbus Industries' representative for details.

## WARRANTY

Columbus Industries' POLYSORB filters are warranted to be free of defects in materials and workmanship.

Obligations under this warranty shall be limited to supplying, promptly and without charge, a replacement for any such filter which is found to be defective prior to its use and providing it is returned within 30 days of the finding to the supplier or Columbus Industries, Inc., State Route 752, Ashville, Ohio 43103. Columbus Industries shall not be liable for any labor costs or other expenses, or for losses or damages whatsoever, resulting from such defects. This warranty shall not apply to any defects attributable to the occurrence of a casualty resulting from mishandling, faulty installation or misapplication of the product.

The foregoing expressed warranty is made in lieu of any other warranties, either expressed or implied, with respect to said filter. All such other warranties, including implied warranties of merchantability and fitness for any particular purpose, are herewith excluded.



UL APPROVAL is available if specified

Certain POLYSORB products are rated for flammability by Underwriter's Laboratories as a Class 2 Material.

POLYSORB™ is a trademark of Columbus Industries, Inc.

Performance Engineered Air Filter Products

 **Columbus Industries, Inc.**

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