BPS™ Bonded Activated Carbon Filters — Air Purification

BPS™ Activated Carbon Filter Panels
Remove Gaseous Pollutants

Bonded Particulate Structure (BPS™) activated carbon filter panels are used extensively for odor control and VOCs. These panels are perfect for environments requiring high contaminant removal and extended service life. With exceptionally low particle shedding characteristics and high performance, these bonded carbon panels require no downstream filters compared to loose fill carbon trays or honeycomb style disposable filters. Ideally suited to solve air quality problems in office buildings, airports, restaurants and manufacturing facilities. Particularly critical for high-purity applications such as cleanrooms, hospitals and paint booths.

Positive Impact on Occupant Health
Removes interior and exterior gaseous pollution sources such as tobacco smoke, cleaning solvents, off-gassing from building materials, human metabolic by-products, vehicle exhaust, paint fumes, jet fumes, manufacturing process emissions, and agriculture process emissions that cause illnesses.

Environmentally-friendly
Cleaner and easier to use than loose trays or honeycomb panels - no dusting or carbon fines.

Call today to learn how to improve your Indoor Air Quality!
BPS™ Bonded Activated Carbon Filter Panels

BPS™ - Bonded Particulate Structure, is a proprietary process that entails binding activated carbon or another suitable adsorbent or catalyst into a monolithic structure while maintaining a very high level of open pore structure. Since no post-activation of the carbon is required after bonding, the adsorption properties (BET surface area, pore size distribution, and butane/CTC activity) essentially remain the same.

BPS™ technology maintains this important pore geometry, thus preserving the adsorptive capacity of the selected activated carbon.

• Filters are disposable - eliminates the need for a duplicate set of refillable panels

BPS™ panels possess equivalent or higher contaminant removal efficiency compared to loose fill honeycomb panels resulting in higher service life.

Pressure Drop

BPS™ panel pressure drop performance is comparable to loose fill honeycomb panels up to 300 SCFM. Since there is no dusting from BPS™ filters, no secondary filter is required, which helps reduce overall pressure drop of the system.

Filters are Designed for Maximum Adsorptive Capacity

• Bonded carbon maintains its high adsorptive properties and exhibits many advantages over loose carbon filled filters
• No loss of efficiency due to settling or by-pass

Efficiency Comparison Between 1" BPS and 1" Honeycomb Filters

Pressure Drop Comparison Between 1" BPS and 1" Honeycomb Filters

The breakthrough curve was generated using 80 PPM toluene at 50 feet/minute velocity.

Particulate Filtration

The panels come with high loft, non-woven polyester “pre” and “post” filter pads.

Gasketing

Filters available with neoprene gasket as specified.

Frame Material

Standard frame material is galvanized steel. Stainless steel and aluminum available upon request.

Performance

The activated carbon has a minimum activity of 60% CTC per the ASTM-D-3467 test method. The binder will not decrease the pore volume by more than 2% as measured by BET.

The panel utilizes high quality, coconut shell carbon with superior pore size distribution specifically selected for its wide adsorptive capacity.

Impregnations

Permanganate, acid and caustic impregnations available for target compounds.

Classification

UL 900 classified filters available.