PRODUCT BULLETIN

PURAFIL SP BLEND MEDIA

Purafil SP Blend media provides the following minimum removal capacities:



REMOVAL CAPACITIES

CONTAMINANT GAS	g/cc	WEIGHT%*
Sulfur dioxide (SO_2)	0.0520	8.13
Nitrogen dioxide (NO_2)	0.1434	22.41
Toluene ($C_6H_5CH_3$)	0.0792	12.38

* 100 pounds (45.36 kg) of Purafil SP Blend media will remove a minimum of 8.13 pounds (3.69 kg) of sulfur dioxide.

APPLICATION GUIDELINES

Temperature	-4°F to 125°F (-20°C to 51°C)
Humidity	10 - 95% RH
Air Speed	60 - 500 fpm (0.30 - 2.54 m/s)
Performance	99.5% (min)initial removal efficiency in Purafil systems

Purafil SP Blend media is a blend of Purafil SP and activated carbon media. Purafil SP media is generally spherical, porous pellets formed from a combination of activated alumina and other binders, suitably impregnated with sodium permanganate ($namno_4$). The sodium permanganate is applied during pellet formation such that it is uniformly distributed throughout the pellet volume and is completely available for reaction with target gases. Our activated carbon media is a pelletized activated carbon with a pore structure that is optimal for the adsorption of a broad range of contaminants and concentrations.

Purafil SP Blend media has been specially engineered to provide the highest overall performance against multiple contaminants. Purafil SP removes contaminant gases by chemisorption. Harmful gases are trapped within the pellet and converted into harmless solids which remain in the pellet, eliminating the possibility of desorption and release back into the environment.

Our activated carbon media removes contaminant gases with high efficiencies and capacities by means of physical adsorption (physisorption). It is very effective against medium-to-high molecular weight compounds, and chemical contaminants with low volatility.

Purafil SP Blend Media demonstrates a higher working capacity for broad-spectrum control of odorous and corrosive gases including mercaptans, hydrocarbons, hydrogen sulfide and sulfur and nitrogen oxides. Purafil SP Blend media can be used when space within a Purafil scrubber is limited but these two individual media are indicated; combining two stages of filtration into one. Purafil SP Blend is also recommended as a polishing media in odor control and corrosion control applications.

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Quality Control

Each lot of Purafil SP and activated carbon media used in Purafil SP Blend media is thoroughly tested prior to shipment according to the procedures described in Purafil's ISO 9001 Quality Systems Manual.

Media Life Analysis

Samples of Purafil SP Blend media should be sent on a regular basis to the Purafil laboratories for testing to determine remaining media life. This provides for scheduled maintenance, avoids downtime, and assures ongoing protection for processes, products, and personnel.

Disposal

Purafil SP Blend media should be disposed of according to local, state, and federal guidelines.

Purafil SP Blend media is UL classified for flammability.

ALL PICTURES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY. ACTUAL PRODUCT MAY VARY DUE TO PRODUCT ENHANCEMENT

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