

PRODUCT BULLETIN

PURAFIL ODORMIX SP MEDIA

Odormix SP media provides the following minimum removal capacities:

REMOVAL CAPACITIES (MINIMUM)*

CONTAMINANT GAS	g/cc	WEIGHT%*
Sulfur dioxide (SO ₂)	0.0520	8.13
Nitrogen dioxide (NO ₂)	0.1434	22.41
Toluene (C ₆ H ₅ CH ₃)	0.0792	12.38

*100 pounds (45.36 kg) of Odormix SP 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



Odormix SP Media is made from an equal mix (by volume) of Purafil's Odoroxidant SP media and Odorkol media. Odoroxidant SP media is generally spherical, porous pellets formed from a combination of activated alumina and other binders, suitably impregnated with sodium permanganate (NaMnO₄). 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. Odorkol media is a pelletized activated carbon with a pore structure that is optimal for the adsorption of a broad range of contaminants and concentrations.

Odormix SP Media has been specially engineered to provide the highest overall performance against multiple contaminants. Odoroxidant SP removes contaminant gases by chemisorption using adsorption, absorption, and chemical reaction (oxidation). 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. Odorkol 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.

Odormix SP 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. Odormix SP 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. Odormix SP is also recommended as a polishing media in odor control and corrosion control applications.

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Quality Control:

Each lot of Odoroxidant SP and Odorkol media used in Odormix SP 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 Odormix SP 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:

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

Purafil's Odormix SP media is UL classified for flammability.

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