Product Bulletin for
Purafil Odorkol Media

Odorkol Media consists of extruded cylindrical, porous pellets formed from a premium virgin activated carbon. No binders are used allowing the carbon completely available for adsorption of target gases.

Odorkol Media has been specially engineered to provide an enhanced adsorptive capacity, assuring the highest overall performance. 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.

Odorkol Media demonstrates a higher working capacity for broad-spectrum odor control in water / wastewater treatment applications where multiple contaminant gases are present such as: hydrocarbons, mercaptans, chlorine, and nitrogen dioxide. Odorkol media provides the following minimum removal capacities:

Removal Capacities

CTC activity	60% (min)
Hardness number	95 (min)
Moisture	2.0% (max)
Ash content	12% (max)
Bulk density	30 lb/ft^3 (0.48 g/cc) ±5%
Nominal pellet diameter	0.16" (4 mm)

Specifications

Contaminant Gas	g/cc	Weight % *
Toluene ($C_6H_5CH_3$)	0.1584	33.0
Trichloroethane (CH_3CCl_3)	0.0960	20.0
Chlorine (Cl_2)	0.0480	10.0
Nitrogen dioxide (NO_2)	0.0317	6.6
Sulfur dioxide (SO_2)	0.0168	3.5

* 100 pounds (45.36 kg) of Odorkol media will remove a minimum of 33 pounds (15 kg) of toluene.

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

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Quality Control

Each lot of Odorkol media is thoroughly tested prior to shipment according to the procedures described in Purafil's ISO 9001 Quality Systems Manual. This testing includes but is not limited to: CTC activity, hardness, bulk density, moisture content, and ash.

Disposal

Odorkol media is non-toxic and non-hazardous as supplied. Spent media may exhibit a fairly high BTU value similar to heating values for coal due to adsorption of various organic gases and vapors. As such, it could be could be used as a fuel additive for solid-fueled boilers, or disposed of through incineration. However, in all cases spent Odorkol media should be disposed of according to local, state, and federal guidelines.