Product Bulletin for
Purafil Purakol Media

Purakol Media consists of extruded cylindrical, porous pellets formed from a very high quality virgin activated carbon. No binders are used making the carbon completely available for adsorption of target gases.

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

Purakol Media demonstrates a higher working capacity for broad-spectrum contaminant control in applications where multiple contaminant gases are present such as: ozone in outdoor air, and hydrocarbons and nitrogen oxides in automobile & diesel exhaust, volatile organic compounds (VOCs) and other emissions from building materials and office furnishings, and human bioeffluents. Purakol media provides the following minimum removal capacities:

Removal Capacities

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

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

Specifications

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)

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 Purakol 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

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

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