

Product Bulletin for Purafil IAQ Media

IAQ Media consists of extruded cylindrical, porous pellets formed from a high quality virgin activated carbon. It is then impregnated with specially formulated compounds to enhance its filtration power.

IAQ Media has been engineered to provide an enhanced adsorptive capacity, assuring the highest overall performance. The chemisorptive process removes contaminant gases by means of adsorption, absorption, and chemical reaction. 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. It is designed to be particularly effective against formaldehyde and other VOC contaminants, which are a primary concern for indoor air quality applications.



IAQ Media demonstrates a higher working capacity in applications where multiple contaminant gases are present such as: formaldehyde, volatile organic compounds (VOCs) and other emissions from building materials, office furnishings, and human bioeffluents. Ideal in indoor environments or household air purifiers, IAQ media provides the following minimum removal capacities:

Removal Capacities

Contaminant Gas	g/cc	Weight % *
Toluene (C ₆ H ₅ CH ₃)	0.063	13.2
Trichloroethane (CH ₃ CCl ₃)	0.038	8.0
Chlorine (Cl ₂)	0.019	4.0
Formaldehyde (CH ₂ O)	0.025	4.4

* 100 pounds (45.36 kg) of IAQ media will remove a minimum of 132 pounds (6 kg) of toluene.

Specifications

CTC activity	60% (min)
Hardness number	95 (min)
Moisture	20% (max)
Ash content	12% (max)
Bulk density	35 lb/ft ³ (0.56 g/cc) ±5%
Nominal pellet diameter	2mm (0.08")

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

Quality Control

Each lot of IAQ 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

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