

Product Bulletin for Purafil Odorcarb Ultra Media

Odorcarb™ Ultra Media consists of generally spherical, porous pellets formed from a combination of activated carbon, activated alumina and other binders, suitably impregnated to provide a superior removal capacity for hydrogen sulfide (H₂S). Impregnants are applied during pellet formation such that they are uniformly distributed throughout the pellet volume and are completely available for reaction with hydrogen sulfide.



Odorcarb Ultra Media has been specially engineered with an extremely high reserve alkalinity. This provides the maximum neutralization potential available and assures the highest overall performance. The chemisorptive process removes contaminant gases by means of adsorption, absorption, and chemical reaction (neutralization). 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.

Odorcarb Ultra Media demonstrates an extremely high working capacity for H₂S making it the preferred media for odor control in wastewater treatment plants, pump stations, wet wells, lift stations, and sludge holding tanks. Odorcarb Ultra media provides the following minimum removal capacities:

Specifications

Moisture	35% (max)
Crush strength	35-70%
Abrasion	4.5% (max)
Bulk density	40 lb/ft ³ (0.64 g/cc) ±5%
Nominal pellet diameter	1/16" - 1/8" (1.6 - 3.2 mm)

Removal Capacities

Contaminant Gas	g/cc	Weight % *
Hydrogen sulfide (H ₂ S)	0.3008	47.0

*100 pounds (45.36 kg) of Odorcarb Ultra media will remove a minimum of 47 pounds (21.3 kg) of hydrogen sulfide

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 Odorcarb Ultra 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: bulk density, impregnation level, moisture content, crush strength, and abrasion.

Media Life Analysis

Odorcarb Ultra media contains Media Life Indicator Pellets (patent-pending) which offer a visual indication of media performance, changing from blue to white when the media is spent. At this point samples of Odorcarb Ultra media should be sent to the Purafil laboratories for testing to verify remaining media life. This provides for scheduled maintenance, avoids downtime, and assures ongoing protection for processes, products, and personnel.

Disposal

Odorcarb Ultra media is non-toxic and non-hazardous as supplied. However, in all cases spent Odorcarb Ultra media should be disposed of according to local, state, and federal guidelines.

Odorcarb Ultra media is UL classified for flammability.