

# PRODUCT SPECIFICATION 4

## ODORCARB™ II MEDIA




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**ODORCARB II MEDIA** is highly effective at removing odorous hydrogen sulfide gas (H<sub>2</sub>S) and is the primary media in Purafil ESD's odor control systems for wastewater treatment applications. Odorcarb II media contains Media Life Indicator Pellets (patent-pending) which offer a visual indication of remaining media life, by changing from blue to white when media is spent.

### MEDIA SPECIFICATION

Odorcarb™ II, an activated alumina-based media shall consist of manufactured, generally spherical porous pellets measuring 1/16" to 1/8" in diameter. Pellets shall be formed from a combination of powdered activated carbon, alumina and other binders, suitably impregnated with caustic chemicals to enhance the capacity for removal of hydrogen sulfide.

Impregnants shall be applied during pellet formation, such that the impregnant is uniformly distributed throughout the volume of the pellet.

### THE CHEMISORPTIVE PROCESS

The chemisorptive process shall remove contaminant gases by means of adsorption, absorption, and chemical reaction. Gases shall be trapped within the pellet where an irreversible chemical reaction changes the gases into harmless solids, eliminating the possibility of desorption.

### DISPOSAL REQUIREMENTS

Spent Odorcarb™ II Media should be disposed of according to local, state and federal guidelines.

### PHYSICAL PROPERTIES

Odorcarb™ II Media shall have the following physical properties:

- **Moisture Content:** 35% Max
- **Crush Strength:** 35% - 70% Max
- **Abrasion:** 4.5% Max
- **Bulk Density:** 45 lbs/ft<sup>3</sup> (0.72 g/cc) ±5%
- **Pellet Diameter:** 1/16" - 1/4"  
(1.5 mm - 6.5 mm)

### REMOVAL CAPACITY

Odorcarb™ II Media shall meet the following removal capacity for hydrogen sulfide: 35.0% minimum by weight.

100 lbs (45.36 kg) of Odorcarb™ II Media shall remove a minimum of 35 lbs (15.88 kg) of hydrogen sulfide.

### ADVANTAGES

- Landfill disposable
- New and spent media is non-toxic
- UL Classified Class 2
- Media Life Indicator Pellets (patent-pending) offer a visual indication of remaining media life.

### APPLICATIONS

Purafil ESD's Odorcarb™ II Media is ideal for use in environments requiring control of hydrogen sulfide gas, such as wastewater treatment plants, pumping stations, wet wells, lift stations and sludge holding tanks.

### APPLICATION GUIDELINES

Odorcarb™ II Media shall perform effectively under the following conditions and guidelines:

- **Temperature:** -4°F to 125°F  
(-20°C to 51°C)
- **Humidity:** 10 - 95% RH
- **Airflow:** Odorcarb™ II Media shall be effective in Purafil ESD systems, including the Drum Scrubber with airflows from 100 to 1,000 CFM (170 to 1699 m<sup>3</sup>/hr), Tub Scrubber with airflows from 500 to 6,000 CFM (850 to 10,194 m<sup>3</sup>/hr) and Deep Bed Scrubber with airflows from 600 to 8,000 CFM (1,020 to 13,592 m<sup>3</sup>/hr). Odorcarb™ II Media shall also be effective in Vessel Scrubbers with airflows from 8,000 to 20,000 cfm (13,592 to 33,980 m<sup>3</sup>/hr).