

# PRODUCT SPECIFICATION **4** ODORKOL™ MEDIA



ODORKOL MEDIA

ODORKOL MEDIA is a component of Purafil ESD's multi-stage scrubbers for odor control applications. Odorkol™ ensures the complete removal of hydrocarbons, allowing the remaining media stages to be fully available for reaction with hydrogen sulfide, sulfur dioxide and other sewerage gases.

## MEDIA SPECIFICATION

Odorkol™ Media demonstrates a high removal capacity for sewerage gases, including hydrocarbons, mercaptans, as well as chlorine and nitrogen dioxide. The activated carbon media shall consist of virgin grade, activated, non-impregnated carbon.

## REMOVAL CAPACITY

Odorkol™ media shall meet the following removal capacity:

- **CHLORINE:** 10.0% minimum by weight
- **NITROGEN DIOXIDE:** 6.6% minimum by weight
- **TOLUENE:** 20.0% minimum by weight
- **TRICHLOROETHANE:** 20.0% minimum by weight

For example, 100 pounds (45.36 kg) of Odorkol™ Media will remove a minimum of 10 pounds (4.53 kg) of chlorine gas.

## THE ADSORPTIVE PROCESS

Odorkol™ Media shall remove contaminant gases by means of adsorption. Gases shall adhere to the surface of the media pellet during the adsorptive process.

## DISPOSAL REQUIREMENTS

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

## CHARACTERISTICS

- Non-toxic
- Easily incinerated for use as a fuel additive\*

*\*If permitted by local, state, and federal governments.*

## PHYSICAL PROPERTIES

- **MOISTURE CONTENT:** 2%
- **HARDNESS NUMBER:** 95 minimum
- **APPARENT DENSITY/BULK DENSE PACK:** 30.0 lbs/ft<sup>3</sup> (0.48 g/cc) ±5%
- **ASH:** >12%
- **CTC:** 60% minimum
- **NOMINAL PELLET DIAMETER:** 4 mm

## APPLICATION GUIDELINES

Odorkol™ 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:** Odorkol™ Media shall be effective in Purafil ESD systems, including the Drum Scrubber with airflows from 100 to 1,000 CFM (170 to 1,699 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). Odorkol™ 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).

## TARGET CONTAMINANTS

- Hydrocarbons
- Chlorine
- Nitrogen dioxide
- Volatile organic compounds