

# PRODUCT SPECIFICATION

4

## PURAFIL® CP BLEND MEDIA

PURAFIL®



**PURAFIL CP BLEND MEDIA** shall consist of an equal mix (by volume) of Purafil® Chemisorbant Media and Purakol® activated carbon media. The Purafil® Chemisorbant Media shall be manufactured, generally spherical, porous pellets formed from a combination of powdered activated alumina and other binders, suitably impregnated with potassium permanganate to provide optimum adsorption, absorption and oxidation of a wide variety of gaseous contaminants. The potassium permanganate shall be applied during pellet formation, such that the impregnant is uniformly distributed throughout the pellet volume and is totally available for reaction. The Purakol® Media shall be an activated carbon for the control of hydrocarbons with a high surface area available for adsorption.



### PHYSICAL PROPERTIES

#### PURAFIL® CHEMISORBANT MEDIA

- Moisture Content: 35% Maximum
- Crush Strength: 35% - 70%
- Abrasion: 4.5% Maximum
- Bulk Density: 50 lbs/ft<sup>3</sup> (0.8 g/cc) ±5%
- Nominal Pellet Diameter: 1/8" (3.175mm)
- Potassium Permanganate Content: 4% Min.

#### PURAKOL® MEDIA

- Moisture Content: 2%
- CTC: 60% Minimum
- Base Material: Activated Carbon
- Bulk Density: 30 lbs/ft<sup>3</sup> (0.48 g/cc) ±5%
- Nominal Pellet Diameter: 4mm

#### PURAFIL® CP BLEND MEDIA

- Bulk Density: 40 lbs/ft<sup>3</sup> (0.64 g/cc) ±5%

### QUALITY CONTROL

Purafil® CP Blend Media shall be submitted to the following quality control tests before shipment:

- Moisture Content
- CTC

### APPLICATION GUIDELINES

Purafil® CP Blend 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:** Purafil® CP Blend Media shall be effective in commercial and industrial systems with airflows ranging from less than 25CFM (42.5 m<sup>3</sup>/hr) to over 100,000 CFM (169,920 m<sup>3</sup>/hr) and with velocities from 60 FPM to 500 FPM (0.30 to 2.54 m/s).
- **MEDIA PERFORMANCE:** Purafil® CP Blend Media shall be designed for 99.5% min. removal efficiency in Purafil systems.
- **MEDIA LIFE:** Regular media samples of Purafil® CP Blend Media shall be taken for projecting remaining media life, providing scheduled maintenance, and ensuring performance.

### INSTALLATION AND DISPOSAL REQUIREMENTS

- Installation: Installers shall use dust masks, safety goggles, and rubber gloves.
- Disposal: Spent Purafil® CP Blend Media should be disposed of according to local, state and federal guidelines.

### ADVANTAGES

- Effective against a broad range of contaminant gases
- Documented removal capacities ensure proper system design
- Media life analysis projects remaining media life for proper maintenance and optimum media performance
- UL Classified Class 1
- Simple media replacement
- Media are factory mixed
- Use in place of a two-pass media system

### TARGET CONTAMINANTS

- Hydrocarbons
- VOCs
- Oxides of sulfur
- Formaldehyde
- Nitric oxides
- Hydrogen sulfide
- Lower molecular weight aldehydes and organic acids