

# PureAir Filtration



## CPS Blend Adsorbent Media

### Description:

CPS Blend adsorbent media is a 50 percent/ 50 percent blend of PureAir 8 potassium permanganate based media and PureAir AC virgin bituminous activated carbon designed for the broadest range removal of corrosive, odorous, or toxic gases.

### Specifications:

#### **PureAir 8 Component**

General Description: 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.

#### Removal Capacity:

- Hydrogen Sulfide: 0.13 g/cc min (8.0% by weight)
- Sulfur Dioxide: 0.06 g/cc min (3.5% by weight)
- Nitric Oxide: 0.06 g/cc min (2.5% by weight)
- Nitrogen Dioxide: 0.016 g/cc (1.0 percent by weight)
- Formaldehyde: 0.023 g/cc (1.4% by weight)

#### Manufacturing Quality Assurance Standards:

- Leach test - 180 minute or less
- Potassium Permanganate content: 8 percent minimum
- Moisture Content: 20 percent maximum
- Crush Strength: 40 to 60 percent
- Abrasion Loss: 3.0 percent maximum
- Nominal pellet Diameter: 1/8" (approximately 3 mm), 85% after screening

#### **PureAir AC Component**

General Description: Porous, cylindrical pellets of high grade bituminous activated carbon.

#### Properties:

- Ash content: 2-3%
- CTC Percentage: 60 to 70 percent
- Surface area: 1200 square meters per gram minimum
- Density: 40 pounds per cubic foot nominal
- Mesh Size: 4 by 6, 90% after screening
- Hardness: 95

Media Remaining Life Testing: Pure Air Filtration provides free quarterly media testing for the life of the media installation. This testing provides critical data including remaining carbon life, remaining permanganate content, total life prediction, moisture content, and projected replacement date. Data is provided for each of the separated components of a blend. All analyses are performed at our certified laboratory.

UL Rating: CPS Blend meets the requirements for a UL Class 1 fire rating.

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