

PureAir Filtration



PP Blend Adsorbent Media

Description:

PP Blend adsorbent media is a 50 percent/ 50 percent blend of PureAir 8 potassium permanganate based media and Sulphasorb acid gas removal media designed for the removal of corrosive gases commonly found in the Pulp & Paper and Petrochemical/Refinery industries.

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

Sulphasorb Component

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

Properties:

- H₂S Capacity: 0.15 g/cc
- Capacity by weight: H₂S: 26% ; SO₂: 7% ; Cl₂:10%
 - CTC value: 70% min
 - Surface Area: 1050 m²/g
 - Density: 580 kg/m³
 - Moisture Content: 15%
 - Hardness: 97 min
 - Ignition Temperature: 425 C

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: PP Blend meets a UL Class 2 rating.

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