

PRODUCT SPECIFICATION 4

PURAFIL® PURACARB MEDIA




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MEDIA

PURAFIL PURACARB MEDIA is manufactured specifically for the corrosive environments and consists of generally spherical, porous pellets. Composed of carbon, alumina and other binders, Puracarb® pellets are impregnated during pellet formation, such that the impregnant is uniformly distributed throughout the pellet volume and is totally available for reaction.

THE CHEMISORPTIVE PROCESS

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

REMOVAL CAPACITY

Puracarb® media shall meet the following removal capacities:

- **HYDROGEN SULFIDE:** 20% minimum by weight
- **SULFUR DIOXIDE:** 10% minimum by weight
- **CHLORINE:** 10% minimum by weight
For example, 100 pounds (45.36 kg) of Puracarb® Media will remove a minimum of 10 pounds (4.53 kg) of chlorine.

PHYSICAL PROPERTIES

Puracarb® Media shall have the following physical properties:

- **MOISTURE CONTENT:** 35% Maximum
- **CRUSH STRENGTH:** 35% - 70%
- **ABRASION:** 4.5% Maximum
- **BULK DENSITY:** 45 lbs/ft³ (0.72 g/cc) ±5%
- **NOMINAL PELLET DIAMETER:** 1/8" (3.175mm)

APPLICATION GUIDELINES

Puracarb® 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:** Puracarb® Media shall be effective in commercial and industrial systems with airflows ranging from less than 25CFM (42.5 m³/hr) to over 100,000 CFM (169,920 m³/hr) and with velocities from 60 FPM to 500 FPM (0.30 to 2.54 m/s).
- **MEDIA PERFORMANCE:** Puracarb® Media shall be designed for 99.5% min. removal efficiency in Purafil systems.
- **MEDIA LIFE:** Regular media samples of Puracarb® Media shall be taken for projecting remaining media life, providing scheduled maintenance, and ensuring performance.

INSTALLATION AND DISPOSAL INSTRUCTIONS

- **INSTALLATION:** Installers shall use dust masks, safety goggles, and rubber gloves.
- **DISPOSAL:** Spent Puracarb® Media should be disposed of according to local, state and federal guidelines.

ADVANTAGES

- Offers the highest removal capacity for H₂S by weight
- Protects equipment longer with less frequent media changeouts
- Compatible for use in all carbon-based air filtration systems.
- UL Classified Class 2
- Non-toxic

TARGET CONTAMINANTS

- Hydrogen sulfide
- Sulfur dioxide
- Volatile organic compounds