

# PRODUCT SPECIFICATION 4 PURACARB® AM



**PURACARB® AM MEDIA** has a higher bulk density and larger removal capacity than standard ammonia medias. It is designed for 99.5% initial removal efficiency in Purafil's equipment systems.



PURACARB® AM

## MEDIA SPECIFICATION

Puracarb® AM Media is manufactured specifically for the control of ammonia and amines and consists of generally spherical, porous pellets. Composed of carbon, alumina and other binders, Puracarb® AM 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 chemical reactions change the gases into harmless solids, eliminating the possibility of desorption.

## DISPOSAL REQUIREMENTS

Spent Puracarb® AM Media should be disposed of according to local, state and federal guidelines.

## PHYSICAL PROPERTIES

Puracarb® AM Media shall have the following physical properties:

- **Moisture Content:** 35% Max
- **Crush Strength:** 35% - 70% Max
- **Abrasion:** 4.5% Max
- **Bulk Density:** 45 lbs/ft<sup>3</sup> (0.72 g/cc) ±5%
- **Pellet Diameter:** 1/8" (3.175 mm)

## REMOVAL CAPACITY

Puracarb® AM Media shall meet the following removal capacities by weight:

- **Ammonia:** 5.8%
- **N-methylpyrrolidone:** 12.0%
- **Triethylamine:** 11.9%
- **Trimethylamine:** 11.9%
- **Methylamine:** 12.0%
- **Dimethylamine:** 12.0%

For example, 100 pounds (45.36 kg) of Puracarb® AM Media will remove a minimum of 5.8 pounds (2.63 kg) of ammonia.

## ADVANTAGES

- Compatible for use in granular media type air filtration systems.
- UL Class 2 pending.
- Non-toxic

## APPLICATION GUIDELINES

Puracarb® AM 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® AM Media shall be effective in commercial and industrial systems with airflows ranging from less than 25 CFM (42.5 m<sup>3</sup>/hr) to over 100,000 CFM (169,920 m<sup>3</sup>/hr) and with velocities from 60 to 500 FPM (0.3 to 2.5 m/s).
- **Media Performance:** Puracarb® AM Media shall be designed for 99.5% min. initial removal efficiency in Purafil systems.
- **Media Life:** Regular media samples of Puracarb® AM Media shall be taken for projecting remaining media life and providing scheduled maintenance and ensuring performance.