

Product Bulletin for Purafil Puracarb AM Media

Puracarb AM Media consists of generally spherical, porous pellets formed from a combination of activated carbon, activated alumina and other binders, suitably impregnated to provide an enhanced removal capacity for ammonia and other basic (caustic) contaminants. Impregnants are applied during pellet formation such that they are uniformly distributed throughout the pellet volume and are completely available for reaction with target contaminants.



Puracarb AM Media has been specially engineered to provide an enhanced neutralization potential thus assuring the highest overall performance. The chemisorptive process removes contaminant gases by means of adsorption, absorption, and chemical reaction (neutralization). Harmful gases are trapped within the pellet and converted into harmless solids which remain in the pellet, eliminating the possibility of desorption and release back into the environment.

Puracarb AM Media demonstrates a higher working capacity for enhanced control of ammonia and other caustic compounds in fertilizer manufacturing, semiconductor fabs, refrigeration and cold storage applications, and animal agriculture operations. Puracarb AM media provides the following minimum removal capacities:

Specifications

Moisture	35% (max)
Crush strength	35-70%
Abrasion	4.5% (max)
Bulk density	45 lb/ft ³ (0.72 g/cc) +5%
Nominal pellet diameter	1/8" (3.175 mm)

Removal Capacities

Contaminant Gas	g/cc	Weight % *
Ammonia	0.0418	5.8
N-methyl pyrrolidone	0.0864	12.0
Triethylamine	0.0857	11.9
Trimethylamine	0.0857	11.9
Methylamine	0.0864	12.0
Dimethylamine	0.0864	12.0

* 100 pounds (45.36 kg) of Puracarb AM media will remove a minimum of 5.8 pounds (2.63 kg) of ammonia.

Application Guidelines

Temperature	-4°F to 125°F (-20°C to 51°C)
Humidity	10 - 95% RH
Air Speed	60 - 500 fpm (0.30 - 2.54 m/s)
Performance	99.5% (min) initial removal efficiency in Purafil systems

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Quality Control

Each lot of Puracarb AM media is thoroughly tested prior to shipment according to the procedures described in Purafil's ISO 9001 Quality Systems Manual. This testing includes but is not limited to: bulk density, impregnation level, moisture content, crush strength, and abrasion.

Media Life Analysis

Samples of Puracarb AM media should be sent on a regular basis to the Purafil laboratories for testing to determine remaining media life. This provides for scheduled maintenance, prevents odor complaints, avoids downtime, and assures ongoing protection for processes, products, and personnel.

Disposal

Puracarb AM media is non-toxic and non-hazardous as supplied. However, in all cases spent Puracarb AM media should be disposed of according to local, state, and federal guidelines.

Puracarb AM media is UL 900 classified for flammability.