

SAAFCarb™

ENGINEERED CHEMICAL MEDIA



Features

- Quick and easy media changeovers
- Resists a wide range of impure gases
- Low pressure drop and high adsorptive capacity
- Compatible for use in all carbon-based air filtration systems
- Target contaminants include:
 - Toluene (C₇H₈)
 - Chlorine (Cl₂)
 - Nitrogen Dioxide (NO₂)
 - Volatile Organic Compounds (VOCs)

Engineered Media

SAAFCarb™ engineered gas removal chemical media is designed to efficiently remove gaseous contaminants from airstreams.

SAAFCarb™ media is a pelletized activated carbon media that removes toxic and impure contaminants from the atmosphere. The activated carbon is produced using selected grades of bituminous coal and steam activated for optimum adsorption capacity.

Adsorptive Process

SAAFCarb™ media removes toxic and impure gases primarily by adsorption. In this process, the gases are held in the pellet pore volume by Van der Waals' forces, as well as other forces.

Quality Control

SAAFCarb™ media undergoes the following quality control tests:

- Apparent Density
- Ball-pan Hardness
- CTC Activity
- Moisture Content
- Pellet Diameter



SAAFCarb™

Typical Properties SAAFCarb™

Raw Material	Virgin Coal
Shape	Cylindrical Pellet
Apparent Density (ASTM D2854)	0.5 g/cc (~30 lb/ft ³) ± 10%
Pellet Diameter (ASTM D2862)	4mm ± 10%
Total Ash Content (ASTM D2866)	< 12 wt. %
Moisture Content (ASTM D2867)	≤ 5 wt. %
Hardness (ASTM D3802)	≥ 95%
Abrasion	< 1%
Iodine Number (ASTM D4607)	≥ 1000 mg/g
CTC Rating (ASTM D5742)	≥ 60 wt. %
Removal Capacity	≥ 24 wt. % Butane, C ₄ H ₁₀

Packaging Options and Application Guidelines

Packaging Options

SAAFCarb™ media is packaged in one cubic foot containers. Also available packaged in SAAF cartridges, cassettes, and trays.

Application Guides

SAAFCarb™ media performs under the following application guidelines (actual capacities and efficiencies may vary):

- Temperature: -4° to 125°F (-20° to 51°C)
- Humidity: 10% - 95% RH
- Suitable for use in commercial and industrial systems with equipment face velocities from 50 to 500 FPM (0.25 - 2.5 m/s)
- Performance efficiency 99.5% (Initial)

Installation and Disposal Requirements

Installation

The installers must use dust masks, safety goggles, and rubber gloves.

Disposal

The spent SAAFCarb™ media must be disposed of according to local, state, and federal guidelines.

Safety Precautions



Wear Goggles



Wear Mask



Wear Gloves



Attention

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www.aafintl.com

AAF has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

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