



Better Air is Our Business®

AmericanAirFilter® **SAAFCarb™ MA Media**

- *Provides targeted contaminant removal capacity for acid gases*
- *Provides extended equipment protection with infrequent media changeovers*
- *Compatible for use in all carbon-based air filtration systems*
- *Low pressure drop and high adsorptive capacity*
- *UL Classification Class 1*

Engineered Media

SAAFCarb MA engineered gas removal chemical media is designed to efficiently remove specific gaseous contaminants from airstreams. Target contaminants include:

- Hydrogen sulfide
- Sulfur oxide
- Nitrogen dioxide
- Volatile Organic Compounds (VOCs)

The SAAFCarb MA media is manufactured exclusively for acidic corrosive environments. The media consists of cylindrical, porous pellets. The pellets are composed of pelletized activated carbon, suitably impregnated for the removal of acid gases.



Chemisorptive Process

The SAAFCarb MA media chemisorptive process removes the impure gases by adsorption, absorption, and chemical reaction. In this process, the gas is trapped within the pellet where a chemical reaction changes the gases into harmless solids, thereby mitigating the possibility of desorption.

Quality Control

SAAFCarb MA media undergoes the following quality control tests:

- Apparent Density
- Ball-pan Hardness
- H₂S Gas Capacity
- Moisture Content
- Pellet Diameter

Typical Properties

Apparent density:	0.6 g/cc ± 10% ASTM D2854 (mod)
Carbon description:	Impregnated
Carbon raw material:	Coal
CTC (base carbon):	60 wt % min ASTM D3467
H ₂ S gas capacity:	0.12 - 0.15 g H ₂ S/cc media ASTM D6646
Hardness:	95% minimum ASTM D3802
Nominal diameter:	4 mm (3 mm media are available in some regions)
Shape:	Cylindrical pellet

Disclaimer: Typical properties are produced using AAF and industry standard test methods. They are listed for informational purposes only and not to be used as purchase specifications. Certificates of analysis are available for specific batches upon request. Please contact your local AAF sales representative for more information.

Packaging Options and Application Guidelines

Packaging Options

SAAFCarb MA media is packaged in one cubic foot containers, and 1,100 lbs. super sacks.

SAAFCarb MA media is also available packaged in SAAF cartridges, cassettes, and trays.

Application Guidelines

SAAFCarb MA 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).

Refer to appropriate AAF documentation for additional information on contaminant gases.

Installation and Disposal Requirements

Installation

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

Disposal

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

Safety

Wet activated carbon adsorbs atmospheric oxygen, causing low oxygen supply in enclosed areas or packed containers. This can be potentially hazardous for workers who enter these oxygen-depleted areas. Make sure that the workers adhere to the provincial and state safety guidelines.