

# SAAFBlend™ WS

## WIDE-SPECTRUM CHEMICAL MEDIA

- Targets acidic gases, volatile organic compounds, reactive low molecular weight organics
- Accurate service life testing
- Composed of three UL Classified media – SAAFOxidant, SAAFCarb and SAAFCarb MA
- Target contaminants include:
  - Formaldehyde
  - Hydrocarbons (VOCs)
  - Hydrogen sulfide
  - Lower molecular weight aldehydes and organic acids
  - Nitric oxide
  - Nitrogen dioxide
  - Sulfur dioxide

### Engineered Media

SAAFBlend WS engineered gas removal chemical media is designed to efficiently remove gaseous contaminants from airstreams.

SAAFBlend WS is produced from an equal volumetric mix of SAAFOxidant™, SAAFCarb™, and SAAFCarb™ MA. Manufactured of spherical and porous pellets, SAAFOxidant engineered media is composed of a combination of activated alumina and other binders. Potassium permanganate is impregnated to this media combination in order to provide optimum adsorption, absorption, and oxidation of various gaseous contaminants. Potassium permanganate is applied uniformly during pellet formation and is distributed throughout the pellet volume. This process provides the maximum amount of impregnant for chemical reaction and optimal performance.

SAAFCarb is manufactured of pelletized activated carbon media, composed of high quality virgin substrates in order to provide optimum adsorption for various gaseous contaminants.

SAAFCarb MA is composed of pelletized activated carbon media suitably impregnated for the removal of acid gases.

### Adsorptive Process

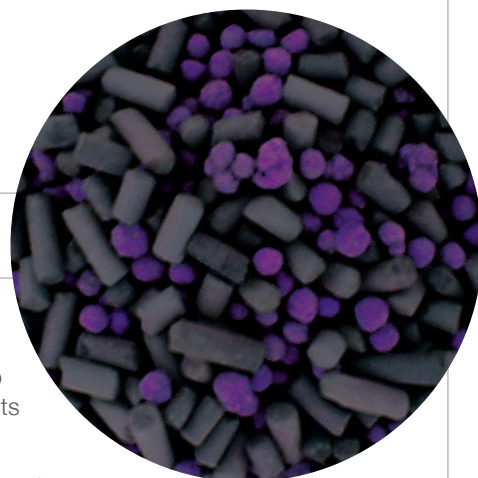
The SAAFCarb media removes toxic and impure gases by physical adsorption. In this process, the gases remain on the surface of the pellet.

### Chemisorptive Process

The SAAFOxidant and SAAFCarb MA chemisorptive process removes the contaminant 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

SAAFBlend WS media contains an equal volumetric mix of SAAFOxidant, SAAFCarb MA, and SAAFCarb media. Each media undergoes respective quality control tests.



# SAAFBlend™ WS

## Typical Properties

### Physical Properties SAAFOxidant™ Media Fraction

Apparent density:	0.8 g/cc ± 10%
Crush strength:	25 N minimum
KMnO <sub>4</sub> Content:	8 wt % minimum
Nominal diameter:	4 mm
Shape:	Sphere

### Physical Properties SAAFCarb™ Media Fraction

Apparent density:	0.5 g/cc ± 10%
Carbon description:	Virgin
Carbon raw material:	Coal
CTC:	60 wt % minimum
Hardness:	95% minimum
Nominal diameter:	4 mm (3 mm available in some regions)
Shape:	Cylindrical pellet

### Physical Properties SAAFCarb™ MA Media Fraction

Apparent density:	0.6 g/cc ± 10%
Carbon description:	Impregnated
Carbon raw material:	Coal
CTC (base carbon):	60 wt % minimum
Hardness:	95% minimum
H <sub>2</sub> S gas capacity:	0.12 - 0.15 g H <sub>2</sub> S/cc carbon
Nominal diameter:	4 mm (3 mm 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

SAAFBlend WS media is packaged in one cubic foot containers, and 1,100 lb. (499 kg) super sacks.

SAAFBlend WS media is also available packaged in SAAF cartridges, cassettes, and trays.

### Application Guidelines

SAAFBlend WS 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 SAAFBlend WS 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.



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

ISO Certified Firm  
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