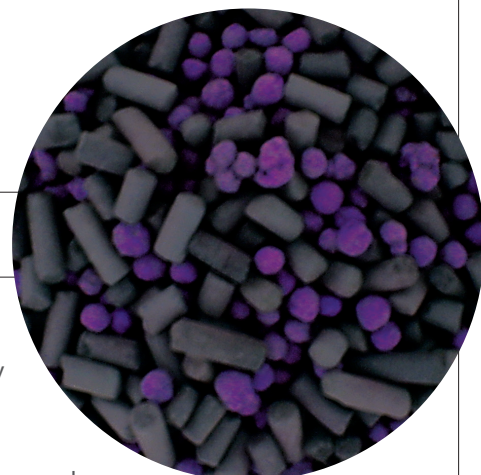


SAAFBlend™ WS

WIDE-SPECTRUM CHEMICAL MEDIA



- Targets acidic gases, Volatile Organic Compounds (VOCs), 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
 - 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 media is produced from an equal volumetric mix of SAAFOxidant™, SAAFCarb™, and SAAF-Carb™ MA media. 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 media is manufactured of pelletized activated carbon media that is composed of high quality virgin substrates, in order to provide optimum adsorption for various gaseous contaminants.

SAAFCarb MA media 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 media 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 and thereby mitigates the possibility of desorption.

Quality Control

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

SAAFBlend™ WS Media

Typical Properties

Physical Properties SAAFOxidant™ Media Fraction

Apparent density:	800 kg/m ³ acc. ASTM D2854
Crush strength:	35–70%
Nominal diameter:	3,175 mm
Shape:	Sphere

Physical Properties SAAFCarb™ Media Fraction

Apparent density:	480 kg/m ³ acc. ASTM D2854
Carbon description:	Virgin
Carbon raw material:	Coal
CTC:	60 wt % minimum
Hardness:	95% minimum
Nominal diameter:	4 mm
Shape:	Cylindrical pellet

Physical Properties SAAFCarb™ MA Plus Media Fraction

Apparent density:	545 kg/m ³ acc. ASTM D2854
Carbon description:	Impregnated
Carbon raw material:	Coal
CTC (base carbon):	60 wt % minimum
Hardness:	97% minimum
Nominal diameter:	4 mm
Shape:	Cylindrical pellet

Disclaimer: Typical properties are produced using AAF and industry standard test methods. They are listed for informational purposes only and are 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 containers of 28 liter and big bags of 499 kg.

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: -20° to 50 °C
- Humidity: 10% – 95% RH
- Effective in commercial and industrial systems; ranges from less than 25 CFM (4,2 m³/h) to over 30,000 CFM (51.000 m³/h) with velocities from 50 to 500 FPM (0,30 to 2,54 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 and federal guidelines. MSDS included in each shipment.

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 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.

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