

# SAAFOxidant™

## CHEMICAL MEDIA

- Non-flammable and non-toxic
- Accurate service life testing
- Does not support bacterial and fungal growth
- Removes and holds contaminants by chemical conversion
- Patent pending high capacity formulation
- UL Classified

### Engineered Media

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

Target contaminants include:

- Formaldehyde
- Hydrogen sulfide
- Lower molecular weight aldehydes and organic acids
- Nitric oxide
- Sulfur dioxide

Manufactured as spherical, porous pellets, SAAFOxidant engineered media is composed of a combination of activated alumina, binders, and potassium permanganate. Potassium permanganate is applied uniformly during pellet formation and is distributed throughout the pellet volume to create a completely homogenous particle. This process provides the maximum amount of impregnant for chemical reaction and optimal performance.

### Chemisorptive Process

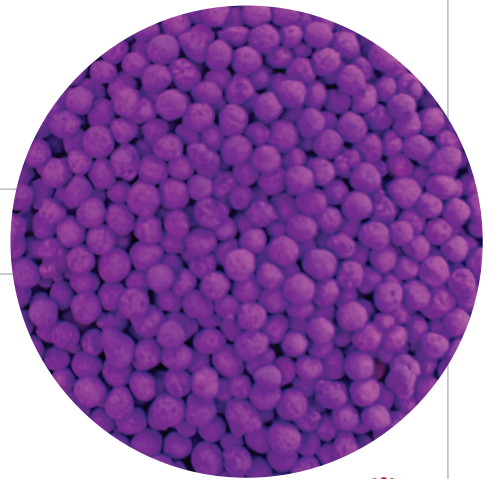
The SAAFOxidant chemisorptive process removes the contaminant gases by adsorption, absorption, and chemical reaction.

In this process the contaminant is trapped within the pellet where oxidation converts the contaminants into harmless compounds, thereby mitigating the possibility of desorption.

### Quality Control

SAAFOxidant media undergoes the following quality control tests:

- Apparent Density
- Crush Strength
- Moisture Content
- Pellet Diameter
- Potassium Permanganate Content



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## Typical Properties

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

*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

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

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

### Application Guidelines

SAAFOxidant 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 SAAFOxidant media must be disposed of according to local, state, and federal guidelines.

## Safety

Make sure that the workers adhere to the provincial and state safety guidelines.



9920 Corporate Campus Drive, Suite 2200, Louisville, KY 40223-5690  
888.223.2003 Fax 888.223.6500 | [www.aafintl.com](http://www.aafintl.com)

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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