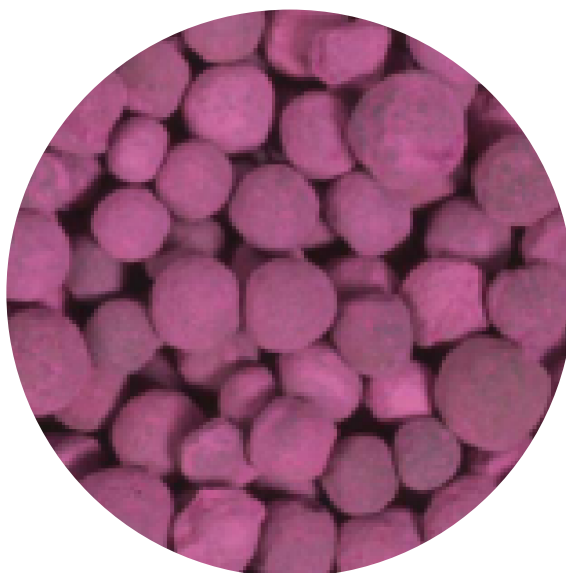


SAAFOxidant™

Engineered Gas Removal Chemical Media

- **Non-flammable**
- **Non-toxic and non-hazardous**
- **Accurate service life testing**
- **Inhibits bacterial and fungal growth**
- **Does not support desorption**
- **Easy disposal**



Engineered Media

SAAFOxidant™ Engineered Gas Removal Chemical Media is designed to efficiently remove up to 99.5% of specific gaseous contaminants from airstreams. Target contaminants include:

- **Sulfur dioxide**
- **Hydrogen sulfide**
- **Nitric oxide**
- **Formaldehyde**
- **aldehydes and organic acids**

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 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 impregnate for chemical reaction and optimal performance.

Chemisorptive Process

The SAAFOxidant™ chemisorptive process removes the contaminant gases by adsorption and chemical reaction. In this process the gas is trapped within the pellet where oxidation changes the gases into harmless solids, thereby eliminating the possibility of desorption. SAAFOxidant's engineering allows this to be instantaneous, irreversible, and safe chemical reaction.

Removal Capacity

SAAFOxidant™ media meets the following contaminant removal capacities by weight:

- **Hydrogen sulfide: 14% minimum**
- **Sulfur dioxide: 7% minimum**
- **Nitric oxide: 4.9% minimum**
- **Formaldehyde: 2.5% minimum**

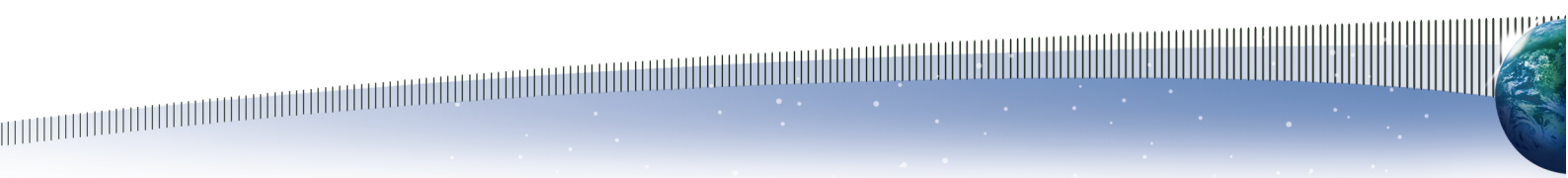
(For example: 45 kg of SAAFOxidant media will remove a minimum 6.35 kg of hydrogen sulfide.)

Service

AAF International will be pleased to offer you a maintenance contract for your chemical filter system. This includes sampling, removal of the used elements, cleaning of the installation and installation of new elements. Disposal in accordance with regulations and/or refilling is part of our scope.

Better Air is Our Business®





SAAF[®]Oxidant™

Engineered Gas Removal Chemical Media

Specification

Physical Properties:	
Moisture content	35% maximum acc. ASTM D2867
Crush strength	35 – 70%
Abrasion	4.5% maximum acc. ASTM D3802
Apparent bulk density	800 kg/m ³ acc. ASTM D2854
Nominal pellet diameter	3 mm
Potassium permanganate content	8% minimum

Application guidelines

Packaging Options	
Containers	28 liter (1 ft ³)
Big bags	560 liter (20 ft ³)
Ready factory filled into :	SAAF Canisters, Cassettes, Trays and deep bed filters
Performance	
Temperature	-20°C to 55°C
Humidity	10 – 95% r. H.
Applications	
Airflow	From 40 m ³ /h to over 170,000 m ³ /h
Velocity	From 0.30 to 2.5 m/s
<i>Refer to appropriate AAF documentation for additional information on delivery systems.</i>	
Precautions	
Installation	Use dust masks, safety goggles, and rubber gloves.
MSDS	Included in each shipment
Disposal	Must be disposed off according to local, state, and federal regulations

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AAF Agents:
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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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