

# SAAFCarb™ MA

## Engineered Gas Removal Chemical Medias

- **Non-flammable**
- **Non-toxic**
- **Designed for acid gases**
- **Easy disposal, fully incinerable**
- **Does not support desorption**



### Engineered Medias

SAAFCarb™ MA Engineered Gas Removal Chemical Medias is designed to efficiently remove up to 99.5% of specific acid gaseous contaminants from airstreams. Target contaminants include:

- **Hydrogen Sulfide**
- **Sulfur dioxide**
- **Chlorine**
- **Hydrocarbons (VOC's)**

Manufactured of pelletized activated carbon, SAAFCarb™ MA engineered medias are composed of high quality substrates with catalytic and / or chemical impregnation in order to provide optimum chemisorption and catalytic reaction for various sour gases. Impregnations are applied uniformly during pellet formation and are distributed

throughout the pellet volume. This process provides the maximum amount of impregnate for chemical reaction and optimal performance.

### Chemisorptive Process

SAAFCarb™ MA impregnated media remove acid contaminants in the irreversible chemisorptive process by chemical and / or catalytic reaction. In this process the gas is trapped within the pellet where chemical or catalytic reaction changes the gases into harmless solids, thereby eliminating the possibility of desorption. SAAFCarb™ MA media allows this to be instantaneous, irreversible, and as a safe chemical reaction.

### Removal Capacity

SAAFCarb™ MA medias meets the following contaminant removal capacities by weight:

- **Hydrogen Sulfide: 17% minimum**
- **Sulfur dioxide: 5 % minimum**
- **Chlorine: 8 % minimum**

(For example: 45 kg of SAAFCarb™ media will remove a minimum 3.6 kg of chlorine gas.)

### 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®*



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### Specification

Physical Properties:	
Moisture content:	< 15 (wt %) acc. ASTM D2867
BET rating, active area	>1100 (m <sup>2</sup> /g) acc. DIN 66132
Abrasion (ball pan):	> 95 (%) acc. ASTM D3802
Ash content:	8 (wt %) acc. ASTM D2866
Apparent bulk density:	500 (kg/m <sup>3</sup> ) acc. ASTM D2854
Nominal pellet diameter:	3 mm
CTC rating	> 65 (wt%) acc. ASTM D3467

### Application guidelines

Packaging Options	
Containers	25 kg sacks
Big bags	500 kg big bags
Ready factory filled into:	SAAF Canisters, Cassettes, Trays and deep bed filters
Media Selection	
SAAFCarb™ MA	Acid gases
Performance	
Temperature	-20°C to 55°C
Humidity	10-95 % r. H.
Applications	
Airflow	From 40 m <sup>3</sup> /h to over 170,000 m <sup>3</sup> /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
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
Disposal	Must be disposed off according to local, state, and federal regulations

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#### AAF Agents:

Johannesburg (RSA)



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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