

# SAAFCarb™ MA-HT

*High-Temperature Engineered Gas Removal Chemical Media for Acid Gas Removal*

- *Non-flammable, rated UL class 1*
- *Non-toxic*
- *Provides maximum contaminant removal capacity for H<sub>2</sub>S*
- *Provides extended equipment protection with infrequent media changeovers*
- *Compatible for use in all carbon-based air filtration systems*



## **Ideal for Acid Gas Removal**

SAAFCarb™ MA-HT is a high capacity, UL certified chemical media targeted for acid gas removal. The media is specifically engineered for safe operation and includes proprietary ingredients that withstand flammability concerns.

Designed exclusively for sensitive corrosive environments, SAAFCarb MA-HT is ideal for applications requiring very high acid gas removal. The media pellets are composed of carbon and other proprietary binders suitably impregnated for the removal of acid gases.

## **Environmentally Safe**

The media contains the maximum amount of proprietary ingredients for effective H<sub>2</sub>S removal and is still safe to handle before, during, and after use and safe for the environment. SAAFCarb MA-HT media is the most cost-effective choice for removal of H<sub>2</sub>S from the airstream.

## **Application Note**

The SAAFCarb MA-HT media efficiently removes 99.5 percent of the contaminant from the system.

## **Target Impurities**

- Hydrogen sulfide
- Sulfur dioxide
- Chlorine

## **Chemisorptive Process**

The SAAFCarb MA-HT media chemisorptive process removes the impure gases by adsorption and chemical reaction. In the process, the gas is trapped within the pellet where oxidation changes

the gases into harmless solids, thereby eliminating the possibility of desorption. SAAFCarb MA-HT media's engineering allows the process to be instantaneous, irreversible, and chemically safe.

## **Removal Capacity**

SAAFCarb MA-HT media meets the following contaminant removal capacities by weight:

- Hydrogen sulfide: 60% minimum by weight
- Sulfur dioxide: 11% minimum by weight
- Chlorine: 16% minimum by weight

For instance, 100 kg of SAAFCarb MA-HT media will remove 60 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®*



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High-Temperature Chemical Media for Acid Gas Removal

## Specification

Physical Properties	
Moisture content	< 2 (wt %) acc. ASTM D2867
Abrasion (ball pan)	> 95 (%) acc. ASTM D3802
Iodine number	1010 mg I <sub>2</sub> /g
Apparent bulk density:	480 (kg/m <sup>3</sup> ) acc. ASTM D2854
Nominal pellet diameter	4 mm
CTC rating	> 65 (wt%) acc. ASTM D3467
H <sub>2</sub> S capacity	0,30 g H <sub>2</sub> S/cc

## 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	Target gases
SAAFCarb™ MA - HT	Acid gases
Performance	
Temperature	-20°C to 50°C
Humidity	10-95 % r. H.
UL Rating	Class 1, tested in accordance with UL Standard 900 and CAN 4-S11.
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
<b>Refer to appropriate AAF documentation for additional information on delivery systems.</b>	
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 has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

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