

# SAAFCarb™ MC

## Engineered Gas Removal Chemical Medias

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



### Engineered Medias

SAAFCarb™ MC Engineered Gas Removal Chemical Medias is designed for emergency removal of chlorine gas from an accidentally discharged storage container. Target contaminant:

- **Chlorine (Cl<sub>2</sub>)**

SAAFCarb™ MC media consists of porous pellets measuring 3 mm in diameter, suitably impregnated to enhance the capacity for removal of chlorine. Impregnants shall be applied during pellet formation, such that the impregnant is uniformly distributed throughout the pellet volume.

### Chemisorptive Process

SAAFCarb™ MC impregnated media

removes chlorine gas in the irreversible chemisorptive process by chemical reaction, adsorption or catalytical reaction. In this process the gas is trapped within the pellet where chemical and / or catalytical reaction changes the gases into harmless solids, thereby eliminating the possibility of desorption. SAAFCarb™ MC media allows this to be instantaneous, irreversible, and as a safe chemical reaction.

### Removal Capacity

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

- **Chlorine: 10% minimum**

(For example: 45 kg of SAAFCarb™ media will remove a minimum 4.5 kg of chlorine gas.

### Quality Control

SAAFCarb™ MC media undergoes the following quality control tests before being shipped:

- Moisture content
- Hardness
- Bulk density
- Ash content
- Sodium thiosulfate content

### 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	< 25 (%) 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	510 (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™ MC	Chlorine
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 has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

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