

SAAFCarb MM

ENGINEERED GAS REMOVAL CHEMICAL MEDIAS



Features and Benefits

- Non-flammable
- Non-toxic
- Designed for Mercury
- Easy disposal, fully incinerable
- Does not support desorption

Engineered Media

SAAFCarb™ MM Engineered Gas Removal Chemical Media is designed to efficiently remove up to 99,5% of specific gaseous contaminants from airstreams.

Target contaminant:

- Mercury (Hg)

Manufactured of pelletized activated carbon, SAAFCarb™ MM engineered media is composed of high quality substrates with catalytic impregnation in order to provide optimum chemisorption and catalytic reaction for various 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™ MM impregnated media removes contaminants in the irreversible chemisorptive process by chemical and / or catalytical reaction. In this process the gas is trapped within the pellet where chemical or catalytical reaction changes the gases into harmless solids, thereby eliminating the possibility of desorption. SAAFCarb™ MM media allows this to be instantaneous, irreversible, and as a safe chemical reaction.

Quality Control

SAAFCarb™ MM 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.

SAAFCarb MM Chemical Media

Specification

| Physical Properties | |
|-------------------------|--|
| Moisture content | < 15 (wt %) acc. ASTM D2867 |
| BET rating, active area | >1100 (m ² /g) acc. DIN 66132 |
| Abrasion resistance | > 95 (%) acc. ASTM D3802 |
| Ash content | < 8 (wt %) acc. ASTM D2866 |
| Apparent bulk density | 500 (kg/m ³) 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 | Target contaminants |
| SAAFCarb™ MM | Mercury (Hg) |
| 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 |
| 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 |

Please refer to appropriate AAF documentation for additional information on delivery systems.



AAF International
European Headquarters
Robert-Bosch-Straße 30-32, 64625 Bensheim
Tel: +49 6251 80368 – 0, Fax +49 6251 80368 – 20
aafintl.com

AAF International has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

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