THE WORLD LEADER IN CLEAN AIR SOLUTIONS

SAAFBlend™ GP

GENERAL PURPOSE CHEMICAL MEDIA

- Targets reactive compounds and Volatile Organic Compounds (VOCs)
- Accurate service life testing
- Composed of two UL Classified media – SAAFOxidant and SAAFCarb
- Suitable for use in commercial and industrial applications
- Target contaminants include:
  - Formaldehyde
  - Hydrocarbons
  - Hydrogen sulfide
  - Lower molecular weight aldehydes and organic acids
  - Nitric oxide
  - Nitrogen dioxide
  - Sulfur dioxide

Engineered Media

SAAFBlend GP engineered gas removal chemical media is designed to efficiently remove gaseous contaminants from airstreams.

SAAFBlend GP media is produced from an equal volumetric mix of SAAFOxidant™ and SAAFCarb™ media. 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 adsorption, 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 impregnant for chemical reaction and optimal performance. SAAFCarb media is manufactured of pelletized activated carbon media that is composed of high quality virgin substrates, in order to provide optimum adsorption for various gaseous contaminants.

Adsorptive Process

The SAAFCarb media removes toxic and impure gases by physical adsorption. In this process, the gases remain on the surface of the pellet.

Chemisorptive Process

The SAAFOxidant media chemisorptive process removes the contaminant gases by adsorption, absorption, and chemical reaction. In this process, the gas is trapped within the pellet, where oxidation changes the gases into harmless solids and thereby mitigates the possibility of desorption.

Quality Control

SAAFBlend GP media contains an equal volumetric mix of SAAFOxidant and SAAFCarb media. Each media undergoes respective quality control tests.

AAF® INTERNATIONAL

SAAFBlend™ GP Media

Typical Properties

Physical Properties SAAFOxidant™ Media Fraction

Apparent density:	800 kg/m^3 acc. ASTM D2854
Crush strength:	35–70%
Nominal diameter:	3,175 mm
Shape:	Sphere

Physical Properties SAAFCarb™ Media Fraction

Apparent density:	480 kg/m3 acc. ASTM D2854
Carbon description:	Virgin
Carbon raw material:	Coal
CTC:	60 wt % minimum
Hardness:	95% minimum
Nominal diameter:	4 mm
Shape:	Cylindrical pellet

Disclaimer: Typical properties are produced using AAF and industry standard test methods. They are listed for informational purposes only and are not to be used as purchase specifications. Certificates of analysis are available for specific batches upon request. Please contact your local AAF sales representative for more information.

Packaging Options and Application Guidelines

Packaging Options

SAAFBlend GP media is packaged in containers of 28 liter and big bags of 500 kg.

SAAFBlend GP media is also available packaged in SAAF cartridges, cassettes, and trays.

Application Guidelines

SAAFBlend GP media performs under the following application guidelines (actual capacities and efficiencies may vary):

- Temperature: -20° to 50 °C
- Humidity: 10%–95% RH
- Airflow: From 40 m^3/h to over 170.000 m^3/h
- Velocity: From 0,30 to 2,5 m/s

Refer to appropriate AAF documentation for additional information on contaminant gases.

Installation and Disposal Requirements

Installation

The installers must use dust masks, safety goggles, and rubber gloves.

Disposal

The spent SAAFBlend GP media must be disposed of according to local and federal guidelines. 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. Make sure that workers adhere to the provincial and state safety guidelines.

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