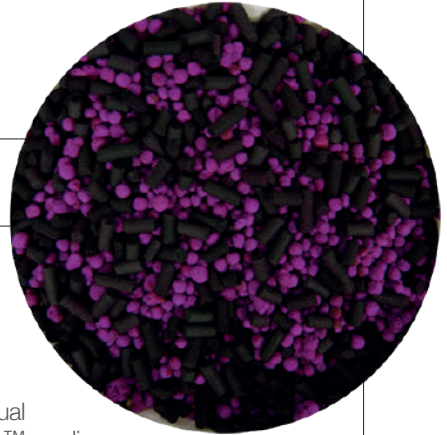


SAAFBlend™ GP

GENERAL PURPOSE CHEMICAL MEDIA



Features

- Targets reactive compounds and Volatile Organic Compounds (VOCs)
- Accurate service life testing
- Composed of SAAFCarb™ media and SAAFOxidant™
- Suitable for use in commercial and industrial applications
- Target contaminants include:
 - Hydrogen Sulphide (H₂S)
 - Sulphur Dioxide (SO₂)
 - Nitric Oxide (NO)
 - Nitrogen Dioxide (NO₂)
 - Formaldehyde (CH₂O)
 - Hydrocarbons
 - Lower molecular weight aldehydes and organic acids

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 SAAFCarb™ and SAAFOxidant™ media. Manufactured of spherical and porous pellets, SAAFOxidant™ engineered media is composed of a combination of activated alumina and other binders. 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

SAAFCarb™ media removes toxic and impure gases primarily by 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.

- Apparent Density
- Ball-pan Hardness (SAAFCarb™)
- Crush Strength (SAAFOxidant™)
- CTC Activity (SAAFCarb™)
- H₂S Gas Capacity (SAAFOxidant™)
- Moisture Content
- Pellet Diameter



SAAFBlend™ GP

Typical Properties SAAFBlend™ GP

	SAAFCarb™	SAAFoxidant™
Raw Material	Virgin Coal	Chemical
Shape	Cylindrical Pellet	Sphere Pellet
Apparent Density (ASTM D2854)	0.5 g/cc (~30 lb/ft ³) ± 10%	0.8 g/cc (~50 lb/ft ³) ± 10%
Pellet Diameter (ASTM D2862)	4mm ± 10%	2.83 - 5.66 mm
Total Ash Content (ASTM D2866)	< 12 wt. %	N/A
Moisture Content (ASTM D2867)	≤ 5 wt. %	≥ 15 wt. %
Crush Strength (AAF 392-800-002-4)	N/A	≥ 50N
Hardness (ASTM D3802)	≥ 95%	N/A
Abrasion	< 1%	≤ 4.5%
Iodine Number (ASTM D4607)	≥ 1000 mg/g	N/A
Gas Capacity (ASTM D6646)	N/A	0.07 - 0.10g H ₂ S/cc media
CTC Rating (ASTM D5742)	≥ 60 wt. %	N/A
Impregnation (AAF 392-800-002-0)	N/A	≥ 8%, KMnO ₄
Removal Capacity	≥ 24 wt. %, C ₄ H ₁₀	≥ 14 wt. %, H ₂ S

Packaging Options and Application Guidelines

Packaging Options

SAAFBlend™ GP media is packaged in one cubic foot containers. Also available packaged in SAAF cartridges, cassettes, and trays.

Application Guides

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

- Temperature: -4° to 125°F (-20° to 51°C)
- Humidity: 10% - 95% RH
- Suitable for use in commercial and industrial systems with equipment face velocities from 50 to 500 FPM (0.25 - 2.5 m/s)
- Performance efficiency 99.5% (Initial)

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, state, and federal guidelines.

Safety Precautions



Wear Goggles



Wear Mask



Wear Gloves



Attention

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Bringing clean air to life:
www.aafintl.com

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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