

SAAF[®]Oxidant™

CHEMICAL MEDIA



- Non-flammable and non-toxic
- Accurate service life testing
- Does not support bacterial and fungal growth
- Removes and holds contaminants by chemical conversion
- Patent pending high capacity formulation
- UL Classified

Engineered Media

SAAF[®]Oxidant engineered gas removal chemical media is designed to efficiently remove gaseous contaminants from airstreams.

Target contaminants include:

- Formaldehyde
- Hydrogen sulfide
- Lower molecular weight aldehydes and organic acids
- Nitric oxide
- Sulfur dioxide

Manufactured as spherical, porous pellets, SAAFOxidant engineered media is composed of a combination of activated alumina, binders, and potassium permanganate. Potassium permanganate is applied uniformly during pellet formation and is distributed throughout the pellet volume to create a completely homogenous particle. This process provides the maximum amount of impregnant for chemical reaction and optimal performance.

Chemisorptive Process

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

Quality Control

SAAF[®]Oxidant media undergoes the following quality control tests:

- Apparent Density
- Crush Strength
- Moisture Content
- Pellet Diameter
- Potassium Permanganate Content

SAAF[®]Oxidant™ Media

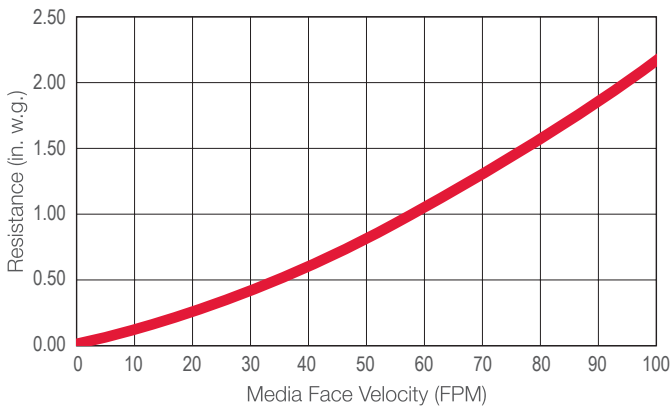
Typical Properties

Apparent density:	0.8 g/cc ± 10%
Crush strength:	25 N minimum
KMnO ₄ Content:	8 wt % minimum
Nominal diameter:	4 mm
Shape:	Sphere

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.

Performance Data

Resistance vs. Media Face Velocity



Packaging Options and Application Guidelines

Packaging Options

SAAF[®]Oxidant media is packaged in one cubic foot containers and 1,100 lb. (499 kg) super sacks.

SAAF[®]Oxidant media is also available packaged in SAAF cartridges, cassettes, and trays.

Application Guidelines

SAAF[®]Oxidant 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).

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 SAAF[®]Oxidant media must be disposed of according to local, state, and federal guidelines.

Safety

Make sure that workers adhere to the provincial and state safety guidelines.

