



MB-145 Chemical Media Blend

MAS MB-145 Media Blend is made from an equal mix (by volume) of MAS SP-904 and EC-101 media. SP-904 media is generally spherical, porous pellets formed from activated alumina impregnated with potassium permanganate ($KMnO_4$) for reaction with target gases. EC-101 media consists of extruded cylindrical, porous pellets formed from a premium virgin activated carbon. Blended together, the media provides the broadest contamination removal possible and is effective in eliminating most IAQ and diesel odor contaminants.



MB-145 media blend is engineered to provide the highest overall performance against multiple contaminants. SP-904 media removes contaminant gases by chemisorption using adsorption and chemical reaction (oxidation). Gases are trapped within the pellet and converted into harmless solids which remain in the pellet, eliminating the possibility of desorption and release back into the airstream. EC-101 media removes contaminant gases by means of physical adsorption. It is very effective against medium-to-high molecular weight compounds, and chemical contaminants with low volatility.

Target contaminants : hydrocarbons, volatile organic compounds (VOCs), sulfur oxides, formaldehyde, nitrogen oxides, hydrogen sulfide, organic acids, and aldehydes

PHYSICAL PROPERTIES

The components of MB-145 media shall have the following physical properties:

Physical Properties SP-904 Media

Apparent density: 0.8 g/cc (50 lbs/ft³)
Crush strength: 25 N minimum
 $KMnO_4$ Content: 4 wt % minimum
Nominal diameter: 4 mm
Shape: Sphere

Physical Properties EC-101 Media

Apparent density: 0.5 g/cc (30 lbs/ft³)
Carbon description: Virgin
Carbon raw material: Coal
CTC: 60 wt % minimum
Hardness: 95% minimum
Nominal diameter: 4 mm

DISPOSAL GUIDELINES

Spent MB-145 media should be disposed of according to local, state, and federal guidelines.

APPLICATION GUIDELINES

MB-145 media shall perform effectively under the following conditions and guidelines:

Temperature: -4°F to 131°F (-20°C to 55°C)

Humidity: 10% - 95% RH

Airflow: Suitable for use in commercial and industrial systems with equipment face velocities from 50 - 500 fpm (0.25 - 2.5 m/s)

Media Life: Regular media samples shall be taken for projecting media life and ensuring performance.

PACKAGING OPTIONS

MB-145 chemical media is available in:

1-cu.ft. box (40-lb.)	#826-B145
6-gallon pail (27-lb.)	#846-B145
1100-lb super sacks	#816-B145

INSTALLATION GUIDELINES

Installers shall use dust masks, safety goggles, and rubber gloves.

