

MULTI-MIX® MEDIA TYPE: MM-9000

CHEMICAL MEDIA SPECIFICATION



MULTI-MIX® MEDIA

Circul-Aire manufactures a wide variety of unique MULTI-MIX® chemical filter media specially designed to remove an extensive range of contaminants from the air. Circul-Aire's MULTI-MIX® chemical filter media, used either individually or in combination, provide continuous purification of air containing corrosive, odorous, and toxic contaminants in both commercial and industrial environments.

Activated Carbon Impregnated with Potassium Hydroxide

Circul-Aire's MM-9000 MULTI-MIX® media is a pelletized activated carbon impregnated with potassium hydroxide for enhanced performance in removing acid gases, such as Hydrogen Sulfide (H₂S), Sulfur Dioxide (SO₂), Chlorine (Cl₂), and Hydrochloric Acid (HCl) from contaminated airstreams. Circul-Aire's MM-9000 MULTI-MIX® media is a chemisorbent manufactured from a unique bituminous coal substrate, with a low pressure drop and a high adsorptive removal capacity.

TYPICAL PHYSICAL PROPERTIES

H₂S Capacity (minimum):	0.16 g H ₂ S/cc
Moisture (maximum):	15 wt%
Substrate Hardness (minimum):	95 wt%
Particle Diameter:	3 mm
Substrate CTC:	70 wt%
Substrate Surface Area:	1,250 m ² /g
Shape:	Pellet
Apparent Density:	0.61 g/cc (38 lb./ft ³)
Pressure Drop @ 50 fpm (0.25 m/s):	1.7 in. of water/ft. of bed

PERFORMANCE GUIDELINES

Circul-Aire's MM-9000 MULTI-MIX® media functions under the following conditions:

- **Temperature:** -20°C to 51°C (-4°F to 125°F)
- **Humidity:** 10% to 95% RH
- **Airflow:** Ranging from less than 25 cfm (42.5 m³/hr.) to over 100,000 cfm (169,920 m³/hr.), with velocities from 60 fpm (0.305 m/s) to 500 fpm (2.54 m/s)

QUALITY CONTROL

Circul-Aire's MM-9000 MULTI-MIX® media undergoes the following quality control tests before shipment:

- Potassium Hydroxide Content
- Moisture Content
- Size Distribution
- Bulk Density



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ADVANTAGES

- Maximum removal capacity for H₂S by weight
- Longer protection of equipment with less frequent media changeouts
- Compatible for use in all carbon-based air filtration systems
- Non-toxic
- Non-desorbing
- Unsupportive of bacterial or fungal growth
- Compatible with other Circul-Aire MULTI-MIX® media
- Circul-Aire laboratory testing and analysis available to determine remaining service life, through Circul-Aire's TECH-CHEK™ Service

PACKAGING

Circul-Aire's MM-9000 MULTI-MIX® media is available in 1-cu. ft. boxes.

SAFETY PRECAUTIONS

- Wet activated carbon readily adsorbs atmospheric oxygen. Dangerously low oxygen levels may exist in closed vessels or poorly ventilated areas. **Workers should follow federal, provincial/state, and local safety guidelines for entering oxygen-depleted areas**
- Keep away from heat and flammable materials
- Handle in a well-ventilated area
- Store in a cool, dry area, away from incompatible materials
- Always wear protective eyewear and gloves when handling chemical media
- **Workers should follow federal, provincial/state, and local safety guidelines when disposing of MULTI-MIX® chemical media**
- Refer to Material Safety Data Sheet (M.S.D.S.) for further information

TECH-CHEK™ SERVICE

Circul-Aire's TECH-CHEK™ Service is offered on an ongoing basis to all its clients at no additional charge. Samples of Circul-Aire's MULTI-MIX® chemical media, which are ideally taken quarterly from the client's filtration equipment, are sent to Circul-Aire's in-house ISO-Certified laboratory, where the media is

analyzed for Life Expended. Via a detailed report to the client, Circul-Aire's TECH-CHEK™ Service not only provides a precise maintenance schedule, but also ensures the highest performance of Circul-Aire's equipment at the most economical cost.

Circul-Aire Inc. reserves the right to make any changes in the design or specifications of any product, at any time, without prior notice.

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