

# MULTI-MIX® MEDIA TYPE: MM-1000

## 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 Alumina Impregnated with Potassium Permanganate

Circul-Aire's MM-1000 MULTI-MIX® media is a high surface area activated alumina pellet, impregnated with potassium permanganate during its manufacturing. The result is a chemical filter with enhanced performance in removing Hydrogen Sulfide (H<sub>2</sub>S), Sulfur Dioxide (SO<sub>2</sub>), Nitrogen Dioxide (NO<sub>2</sub>), Mercaptans, as well as light organics from airstreams. Circul-Aire's MM-1000 MULTI-MIX® media is a chemisorbent, filtering by adsorption and then oxidation, and has a low pressure drop due to its uniform size and spherical shape.

### TYPICAL PHYSICAL PROPERTIES

<b>H<sub>2</sub>S Capacity (minimum):</b>	0.10 g H <sub>2</sub> S/cc
<b>Moisture:</b>	22 wt%
<b>Compaction (minimum):</b>	2.7 kg (6 lb.)
<b>Particle Diameter:</b>	3.2 mm (1/8 in.)
<b>Substrate Surface Area:</b>	250 m <sup>2</sup> /g
<b>Shape:</b>	Spherical Pellet
<b>Apparent Density:</b>	0.88 g/cc (55 lb./ft <sup>3</sup> )
<b>Pressure Drop @ 50 fpm (0.25 m/s):</b>	1.0 in. of water/ft. of bed

### PERFORMANCE GUIDELINES

Circul-Aire's MM-1000 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 m<sup>3</sup>/hr.) to over 100,000 cfm (169,920 m<sup>3</sup>/hr.), with velocities from 50 fpm (0.254 m/s) to 500 fpm (2.54 m/s)

### QUALITY CONTROL

Circul-Aire's MM-1000 MULTI-MIX® media undergoes the following quality control tests before shipment:

- Potassium Permanganate Content
- Moisture Content
- Size Distribution
- Bulk Density
- Compaction



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## ADVANTAGES

- Non-toxic and nonhazardous
- Non-desorbing
- Unsupportive of bacterial or fungal growth
- UL Class 1 listed as nonflammable
- 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-1000 MULTI-MIX® media is available in 50-lb. boxes and 6-cu. ft. or 20-cu. ft. super sacks.

## SAFETY PRECAUTIONS

- Avoid contact with easily oxidizable matter
- 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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