

# MULTI-MIX® MEDIA TYPE: MM-3000

## 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.

### Coal Based Activated Carbon

Circul-Aire's MM-3000 MULTI-MIX® media is a pelletized activated carbon for removing a variety of odor-causing organic compounds and volatile organic compounds (VOC's) through physical adsorption. Circul-Aire's MM-3000 MULTI-MIX® media is manufactured and activated from a unique bituminous coal substrate, with a low pressure drop and a high adsorptive removal capacity.

### TYPICAL PHYSICAL PROPERTIES

<b>Moisture (maximum):</b>	2 wt%
<b>Hardness (minimum):</b>	95 wt%
<b>Particle Diameter:</b>	3 mm
<b>Substrate CTC (minimum):</b>	70 wt%
<b>Substrate Surface Area:</b>	1,250 m <sup>2</sup> /g
<b>Shape:</b>	Pellet
<b>Apparent Density:</b>	30 lb./ft <sup>3</sup>
<b>Ash Content:</b>	12% maximum
<b>Pressure Drop @ 50 fpm (0.25 m/s):</b>	1.7 in. of water/ft. of bed

### PERFORMANCE GUIDELINES

Circul-Aire's MM-3000 MULTI-MIX® media functions under the following conditions:

- **Temperature:** -20°C to 46°C (-4°F to 115°F)
- **Humidity:** No Condensation
- **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-3000 MULTI-MIX® media undergoes the following quality control tests before shipment:

- Butane Activity
- Moisture Content
- Size Distribution
- Bulk Density



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### ADVANTAGES

- Non-toxic and nonhazardous
- 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-3000 MULTI-MIX® media is available in 1-cu. ft. boxes and 6-cu. ft. or 20-cu. ft. super sacks.

### 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
- 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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