



CHEMICAL MEDIA SPECIFICATION

MEDIA TYPE: **CLEANAIRE™**

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.

High capacity chemical filter for outdoor air pollution control

Circul-Aire CLEANAIRE™ is a dual mix of MM-1000C and MM-9000 LT C media designed to remove all gaseous contaminant by-products from vehicle emissions, diesel exhaust and jet fumes, such as nitrogen dioxide, sulphur dioxide and nitric oxide, as well as ozone, volatile organic compounds (VOC), plus lower molecular weight, such as aldehydes and hydrocarbons.

ADVANTAGES

- CLEANAIRE™ by Circul-Aire ideally designed and formulated for Outdoor Air Intake
- CLEANAIRE™ can be used with all new and existing models of Circul-Aire® gas-phase filtration equipment and is a drop-in replacement that's compatible with most competing brands
- CLEANAIRE™ state-of-the-art, ISO certified laboratory and TECH-CHECK® program can verify media for efficacy and life expended
- Recirculation through gas-phase filtration – conserves energy by reducing of Outdoor Air Intake
- CLEANAIRE™ chemical media production complies with ISO-14000 requirements for a closed loop manufacturing process with no environmental impact.

TYPICAL PHYSICAL PROPERTIES

H₂S Capacity (minimum):	0.20 g H₂S / cc
Moisture (maximum):	15% wt
Particle Size:	4 x 8 mesh
Substrate Surface Area:	1,000 m²/g
Substrate Hardness (minimum):	95% wt
Shape:	Chips
Apparent Density:	0.68-0.74 g/cc (42.5-46.5 lbs/cuft)
Pressure Drop @ 50 fpm (0.25 m/s):	1.7 in. of water/ft. of bed

PERFORMANCE GUIDELINES

Circul-Aire CLEANAIRE™ 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 CLEANAIRE™ media undergoes quality control tests prior to shipment:

- Potassium Permanganate Content
- Potassium Hydroxide Content
- Moisture Content
- Hydrogen Sulfate Removal Efficiency
- Butane Activity
- Size Distribution
- Bulk Density

PACKAGING

Circul-Aire CLEANAIRE™ 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.
- 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.