



Premium Media with Permanganate Blend

Enhanced activated carbon media with potassium/sodium permanganate (blend/impregnated)

A **Permanganate Blend** is a high-performance air purification media combining **activated alumina or activated carbon** with **strong oxidizing agents**. These components are **chemically bound and evenly distributed** within the media, enabling **irreversible chemical reactions** with harmful gases.

Ideal for sensitive environments where clean air is critical.

APPLICATIONS

- Commercial & institutional HVAC systems
- Laboratories and cleanrooms
- Hospitals and healthcare facilities
- Archives, museums, and data centers

KEY BENEFITS



True chemical neutralization (not reversible)



High efficiency for acidic, corrosive, and toxic gases



No desorption or re-emission risk



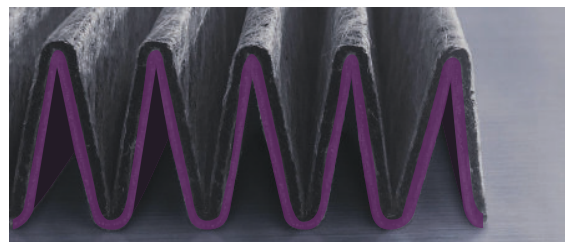
Visual end-of-life indication (permanganate color change)



Reduced downstream corrosion



Lower total cost of ownership (TCO)



Targeted gases.

- | | |
|-------------|------------------|
| • Acids | • Nitrogen oxide |
| • Aldehydes | • VOC |
| • Ammonia | • Ozone |
| • Bases | • Boron |

How It Works

The combination of potassium/sodium permanganate and activated carbon provides a dual mechanism:

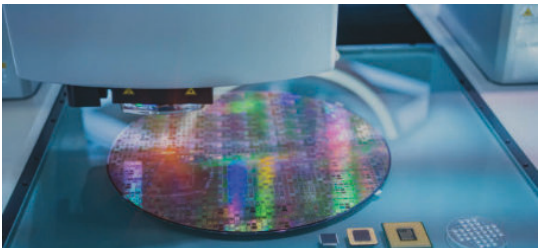
- Oxidation:** Permanganate oxidizes reactive gases into harmless compounds.
- Adsorption:** Activated carbon captures remaining chemical contaminants.

Alkegen Delivers Premium Air Filtration Solutions for Sensitive Environments

For more than 75 years, Alkegen has developed transformative technologies at a large scale. Today, we work across multiple industries – including electric vehicles, batteries and energy storage, automotive and aerospace, industrial insulation, filtration, and fire protection – that require rigorous-quality standards, certifications, and compliance to global health, safety, and environmental regulations

Why Choose LydAir GP?

- Flexible Design:** Tailored combinations of Na/K MnO₄ impregnated activated carbon with varying basis weights for your clean space requirements.
- Reliability:** Consistent high performance for mission-critical facilities.
- Versatility:** Adaptable to different filter configurations and high-end applications.
- Safety:** Non-toxic and environmentally responsible



Learn more about how LydAirGP can bring cleaner indoor air to your industry at alkegen.com/lydair-gp.

Target Gases	Grades	Carbon weight g/m ₂	Particulate Filtration Layer
Blend Virgin Activated carbon – KMnO ₄ blend	GP0200P1-10/6	200	All grades can be available without/with particulate filtration Merv 8-Merv 16; ePM10-ePM1 75 % efficiency
	GP0480P1-9/6	480	
	GP0640P1-9/6	640	
Blend KOH impregnated activated carbon-KMnO ₄ blend	GP0200P2-10/6	200	
	GP0480P2-9/6	480	
	GP0640P1-9/6	640	
KMNO₄/NaMO₄ Impregnated alumina	GP0640P3-9/6	640	
	GP0800P3-9/6	800	
Multiple Fugitive Gases	Advanced & Multi Sorbents	Please consult with our sales representatives for advanced grades: dual, triple sorbents & high CTC adsorbents with higher performance in equivalent basis weights	



7,500
employees
worldwide



75+ years of
global service
and support



60+
manufacturing
facilities



ISO 9001
IATF 16949
accredited



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