

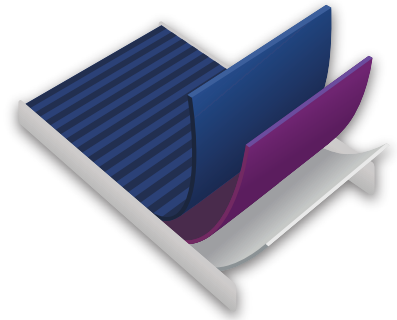


Premium Gas Filtration Media for High-End Applications

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

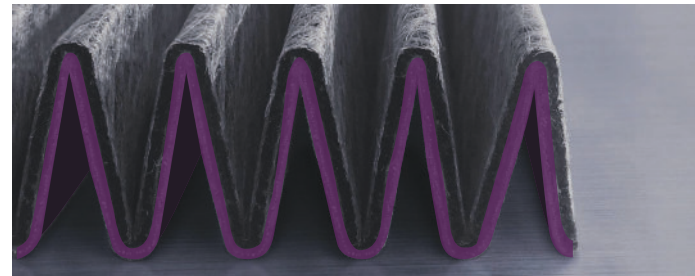
LydAir® GP $\text{KMnO}_4 / \text{NaMnO}_4$ is an advanced blend of potassium or sodium permanganate with activated carbon, designed to provide exceptional performance in removing a wide range of gases. Engineered for demanding environments, it ensures reliable, long-lasting protection and superior gas adsorption.

Ideal for sensitive environments where clean air is critical.



APPLICATIONS

- Cleanrooms and controlled laboratory environments
- Semiconductor manufacturing facilities
- Data centers requiring advanced air purification
- High-end spas and wellness facilities
- Museums



KEY BENEFITS

- **Broad Spectrum Gas Removal & Advanced Composite Engineering:** Combines permanganate oxidation and activated carbon adsorption with state-of-the-art composite engineering, merging sorbent and synthetic non-wovens for superior gas filtration.
- **Enhanced Performance & Optimized Sorbent Selection:** Alkegen expertise ensures the selection of the best sorbents with precise chemical affinity, enhancing filtration efficiency across a wide range of gases.
- **High Purity & Precise Basis Weight:** Carefully calibrated basis weight minimizes pressure drop while maintaining high purity and maximizing product lifespan.
- **Long Service Life, Corrosion prevention:** providing extended media life, preventing corrosion and protect valuable product and process in high performance, and low maintenance costs.
- **Tailored Solutions & Optimal Distribution:** Custom grades ensure uniform sorbent distribution on nonwoven materials for consistent, reliable performance and adaptability to different filter configurations.



Targeted gases.

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

How It Works

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

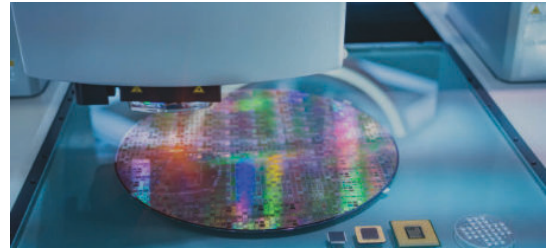
- Oxidation:** Permanganate oxidizes reactive gases into harmless compounds.
- Adsorption:** Activated carbon captures remaining chemical contaminants.

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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