bysorb™

TECHNICAL DATA SHEET

Product: Bysorb Vapourshield

Features & Benefits

- Adsorbs gaseous pollutants and odours
- Integrates into gas treatment systems
- Stable performance under varying conditions
- Environmentally responsible formulation

Bysorb Vapourshield is a high-quality activated carbon tailored for gas treatment applications. Ideal for industrial exhaust systems, air purification units, and emission control, it supports air quality management and compliance with regulatory standards. It combines cutting-edge technology with emphasising environmental responsibility. This product is a preferred choice for improving gas management responsibly. **Bysorb Vapourshield** is available in various biomass materials, iodine numbers, and surface areas to suit specific application needs.

Applications:

Air and gas purification	Flue gas treatment	Automotive emission control
Gas processing	Solvent recovery	

Specifications

Bysorb Vapourshield	
Raw Material Options	Coconut Shell and Coal
Iodine Number	700–1100 mg/g
Methylene Blue Adsorption	150 - 250 mg/g
Moisture Content	5-10 wt%
Ash Content	5 - 15 wt%
Apparent Density	0.40–0.55 g/mL
CTC (Carbon Tetrachloride Activity)	40 - 65 %
Butane Adsorption Capacity	≥ 17%
Hardness	92–99%
Available in Mesh Sizes	• GAC: 12x40, 8x30, 8x16, 4x8 • Pellets: 2-6mm
Packaging Options	20 KG and 500 Kg bags

*Specification values are for informational purposes only and represent typical ranges. For exact specifications, please contact Bygen.
*Determined using relevant ASTM standard unless stated otherwise
*Determined using in-house methodology

Safety Message: Wet-activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed. For more information, contact info@bygen.com.au

Application Benefits:

Bysorb Vapourshield excels in adsorbing gaseous pollutants, effectively reducing emissions and odours. Its robust composition allows seamless integration into gas treatment infrastructure, providing a dependable solution for enhancing environmental performance and workplace safety. The product delivers stable results under varying operational conditions and supports waste reduction through its environmentally responsible formulation.

Targeted Contaminants:

- Volatile Organic Compounds (VOCs): Removes emissions from solvents and fuels.
- Sulphur Compounds: Neutralises corrosive and odorous gases.
- Ammonia: Eliminates irritating vapor-phase contaminants.
- Hydrocarbons: Adsorbs oily residues from gas streams.
- Solvent Vapours: Captures chemical fumes from industrial processes.

Key Properties

- Optimised Porosity: Provides extensive surface area for efficient gas adsorption.
- Flow Compatibility: Ensures minimal resistance in air-handling systems.
- Longevity: Offers sustained performance in challenging conditions.
- Sustainable Advantage: Manufactured using renewable materials, reducing ecological footprint and promoting sustainable operations.
- Thermal Stability: Withstands high-temperature environments effectively.
- Broad Applicability: Suits a wide range of gas treatment setups.

Certifications

- ISO 9001:2015
- ISO 14001:2015

Additional certifications may be available upon request.

Application-specific impregnated activated carbons are available upon request.

Safety Message: Wet-activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed. For more information, contact info@bygen.com.au