bysorb™

TECHNICAL DATA SHEET

Product: Bysorb Aqua

Features & Benefits

- High internal surface area
- Versatile adsorption of a broad range of compounds
- Fine particle size maximises adsorption kinetics
- Rapidly disperses in water

Bysorb Aqua is a premium activated carbon engineered for water treatment. Designed to address municipal water purification, wastewater management, and industrial water systems. This tailored product offers reliable performance and delivers high-quality treated water for you and your customers. This product reflects a commitment to innovation and environmental care. It is trusted for providing sustainable solutions to water purity challenges. **Bysorb Aqua** is made from different biomass materials, with a variety of characteristics to suit specific application needs.

Applications:

Surface Water	Taste and Odour	Municipal Potable & Drinking Water
Environmental Water	Groundwater	PFAS/PFOS Removal from Drinking Water

Specifications

Bysorb Aqua	
Raw Material Options	Coconut Shell, Almond Shell, Wood, and Coal
Iodine Number	800 - 1200 mg/g
Methylene Blue Adsorption	≥ 200 mg/g
Moisture Content	3 - 10 wt%
Ash Content	3 -10 wt%
Surface Area	800 - 1200 m²/g
Apparent Density	0.40 - 0.55 g/mL
MIB Removal Efficiency	70 - 75%
Geosmin Removal Efficiency	85 - 95%
Hardness	90 - 98%
Available in Mesh Sizes	• GAC: 12x40, 8x30, 8x16, 4x8 • PAC: 200, 325 • 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 Aqua is a high-performance activated carbon designed to effectively adsorb a wide range of impurities, including organic contaminants and heavy metals. Its specialised porous structure ensures maximum contaminant capture, significantly improving water clarity, taste, and safety. Easy to integrate into existing treatment systems, it helps operators meet strict regulatory standards with minimal disruption. With low maintenance requirements, Bysorb Aqua enhances long-term operational efficiency. Its environmentally responsible design also supports sustainability targets by utilising sustainable production methods.

Targeted Contaminants:

- Organic Compounds: Eliminates natural and industrial substances affecting taste and Odour.
- Chlorine: Neutralises residual disinfectants for improved water quality.
- Micropollutants: Adsorbs small-scale pollutants such as pesticides and pharmaceuticals.
- Radon: Reduces gaseous contaminants for safer water.
- PAHs (Polycyclic Aromatic Hydrocarbons): Removes complex organic pollutants from industrial sources.
- Phenols: Eliminates compounds contributing to off-tastes and Odours.
- Benzene: Adsorbs this harmful chemical often found in contaminated water.

Key Properties

- Enhanced Porosity: Features a highly porous structure for rapid and effective contaminant adsorption.
- Application-Specific Design: Optimised for water treatment systems across various scales.
- Durability: Maintains performance over extended use.
- Sustainable Advantage: Produced from renewable resources, minimising environmental impact and supporting green initiatives.
- High Capacity: Ensures maximum contaminant uptake for consistent results.
- Versatile Compatibility**:** Adapts to diverse treatment configurations effortlessly.

Certifications

- ISO 9001:2015
- ISO 14001:2015
- Halal
- Kosher
- NSF 61

Additional certifications may be available upon request.

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