

Alicarb® Activated Carbon Series Stacks



⊕ Product Introduction

The Alicarb® Activated Carbon Series is designed to meet the liquid filtration requirements of diverse industries, including pharmaceuticals, food and beverage, cosmetics, biotechnology, and fine chemicals. Primarily used for decolorization, deodorization, impurity removal, and clarification, these products are engineered for integration with stainless steel filter housings and are available in multiple size specifications to accommodate a wide range of customer needs.

The series features various filter cartridge configurations, each composed of cellulose, filter aids, positively charged resin, and activated carbon. Alioth meticulously selects five standardized types of activated carbon for the production of Alicarb® cartridges, ensuring broad applicability across different sectors. Additionally, cartridges with varying pore sizes are available to handle liquids with differing turbidity and viscosity levels.

These cartridges effectively perform decolorization and deodorization for a wide variety of liquids. Tailored to specific feedstocks, they remove diverse impurity molecules—such as retaining cell fragments and adsorbing small-molecule impurities—thereby reducing the processing burden on downstream purification.

⊕ Key Features and Benefits

- High adsorption efficiency for decolorization and deodorization
- Complex pore structure and large specific surface area enabling versatile applications in demanding scenarios
- Flexible media selection with tailored product development for specific feedstocks
- User-friendly membrane stack operation featuring dust-free processing
- Constant flow rate/pressure filtration for high efficiency and reduced process time

⊕ Typical Applications

- Antibiotic decolorization
- Solution deodorization
- Endotoxin removal
- Purification of antibodies, vaccines, and peptides
- Detergent and defoamer removal
- Catalyst removal
- Solvent decolorization
- Organic impurity removal from active ingredients
- Decolorization in food processing

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⊕ Product Specifications

Product Specifications	Product Series	16" 8-Layer Single -Membrane Stack	16" 13-Layer Single -Membrane Stack	16" Other Customized Specifications
	Effective Filtration Area	1.8 m ²	3 m ²	Selectable
	Product Height	204 mm	275 mm	Specification-dependent
Materials of Construction	Filter Plate Composition	Cellulose, Filter Aids, Resin, Activated Carbon		
	Frame and Cover Material	Glass Fiber Reinforced Polypropylene		
	Stainless Steel	316L		
Working Characteristics	Silicone Gasket	Silicone Rubber		
	Max. Operation Pressure	3.0 bar @ 25°C		
	Max. Pressure Differential	Forward: 2.0 bar @ 25°C		
		Reverse: Not recommended		
Working Characteristics	Indirect Food Additive Complain	All components comply with FDA 21 CFR 177-182 requirements for food contact materials		
	Toxicity Certification	All materials meet USP <88> Class VI biological safety requirements for in vivo use		
	Bacterial Endotoxin	Endotoxin level in flush fluid <0.125 EU/mL, compliant with Chinese Pharmacopoeia and USP standards for Water for Injection		

⊕ Ordering Information

Format	Membrane type	Membrane Configuration	Size	Layers	Connection Type
S=Depth Membrane Stack	ACA01, ACA02 ACC03, ACC04	S=Single-layer	16=16 inch	U=2 layers W=4 layers S=6 layers A=8 layers C=10 layers D=13 layers	F=Flange connection
Structure	Gasket Material	Packaging Quantity			
A=Stainless steel band	S=Silicone Rubber	1=1 pc/pack			