Website QR Code

Jiangsu Aokai Environmental Technology Co., Ltd. A Clean Air Company

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AOKAI ENVIRONTEC

LOW EMISSIONS LOW ENERGY CONSUMPTION

EXPERT OF DUST CONTROL
AND GAS DEDUSTING SYSTEM SOLUTIONS

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COMPANY PROFILE

Jiangsu Aokai Environmental Technology Co., Ltd. is a comprehensive enterprise integrating production, research and development and sales of technical non-woven fabrics for industrial use. Aokai is mainly engaged in the business of emission of flue gas pollutants and flue gas dedusting in electric power, steel, cement, metallurgy, chemical industry, building materials, road construction machinery etc, providing various products and flue gas dedusting system solutions including needle-punched filter materials, filter bags, filter bag cages and dust collector accessories etc.

Help Industrial Customers Control Air Pollution and Emmissions

22
Years of Experience

500+
Filter Media Materials

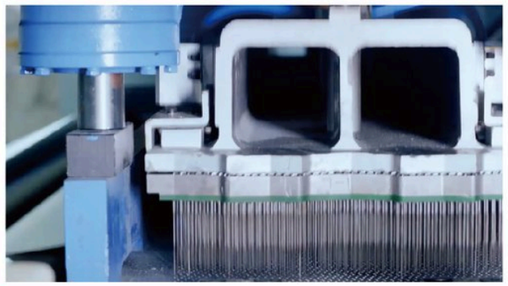
10,000
Customers Worldwide

270+
Team Members



Filter Media Production Line







Filter Bag Production Line







Bag Cage Production Line







Laboratory Equipment







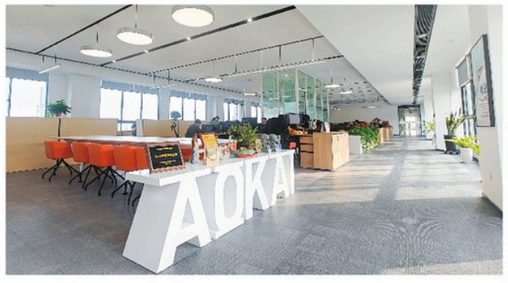
Storage Center

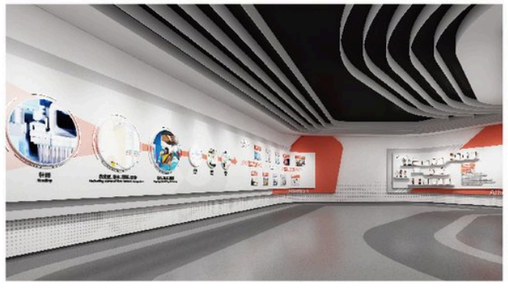






Office & Exhibition Hall







AOKAI FILTER MEDIA

Filter Media Solutions

Aokai provides filter media solutions for abrasive, corrosive, high-temperature, and explosive dust filtration, and specializes in dust collection processes in asphalt mixing, chemicals, cement, metals, power generation, waste-to-energy, renewable energy, woodworking, and many other demanding industries.

Filter Media

Choosing the right filter media with its corresponding characteristics that are best suited for your application can help boost the performance and longevity of your dust filtration system.





Fibre types	Weight (g/m²)	Continuous Temperature	Peak Temperature
PE	450-600	130℃	150℃
PAC	400-600	130℃	150℃
PPS	500-650	160℃	190℃
Aramid	400-600	204℃	250℃
PTFE	700-850	240℃	260℃
P84	500-550	240℃	260℃
GL	300-950	240℃	260℃

Filter Media Post-treatment

Different fibers provide each media with different dust filtration characteristics. Filter media can be further treated to improve their filtration efficiency and performance, such as lengthened filter media life cycle, better dust cake release, reduced valve pulsing, more consistent airflow, reduced differential pressure, and reduced downtime and maintenance.







Typical Dust Properties with the Appropriate Surface Finishes	Singe	Calendar	Silicone	Hydrophobic Oleo phobic	Chemical Protection	Dispersion	Microfiber
Free Flowing	★						
Agglomerating		★					
Corrosive	★		★				
Humid				★	★		
Sticky		★		★	★	★	
Acid / Alkaline						★	
Ultra fines							★



AOKAI FILTER BAG

For the different types of dust collector, Aokai helps customers to choose the filter bag reasonably and effectively, which can reduce the electricity consumption when the fan works or the compressed air required for pulse cleaning, to reduce the operating cost of the customer. The more effective the dust cleaning pressure of the dust collector, the tighter and heavier the filter bag should be used.

The requirements of different cleaning methods of the dust collector on the weight

Dust Separation Procedure	Weight (g/m²)
Intermittent Shaking	300-350
Shaking-and Reverse Air	350-450
Low Pressure Cleaning	400-500
Pulse Jet	500-650

Aokai filter bags are always made according to the requirements of your dedusting equipment. It ensures the close fit of the filter bag and the tube sheet to prevent the dust from leaking from the tube sheet hole.





Filter Bag Types and Application of Aokai Environtec

Fiber Types	Product Code	Continuous Temperature	Peak Temperature	Application	Advantage
Polyester	PE	130℃	150℃	Applicable to mine, limestone, cement, iron and steel industries, alumina delivery, electrolytic aluminum, non-ferrous metal production, wood processing and pharmacy industry.	Good resistance to oxidation, while limited resistance to acids and alkalis. Service life will be affected by hydrolysis at high temperature.
Polyacrylnitrile Homo polymer	PAC	125℃	150℃	Applicable to detergent, spray dryer, coal mill and power plant industries.	Good resistance to hydrolysis.
Polyphenylene Sulfide	PPS	160℃	190℃	Applicable to the working conditions with low-oxidation gas from coal-fired boiler, waste incineration, metal smelting, and chemical industries.	Moderate resistance to oxidation, but excellent resistance to acids, alkali's and hydrolysis.
m-Aramide	Nomex/ Conex	204℃	240℃	Applicable to asphalt, non-ferrous metal production, ceramic, glass industries , cement, and blast furnace in steel factories.	Service life will be affected by hydrolysis at high temperature.
Polyimide	PI / P84	240℃	260℃	Applicable to the working conditions with corrosive gas, such as chemical, metal smelting, waste incineration industries, cement kiln and coal-fired boiler.	Excellent resistance to high peak temperature.
Polytetrafluoro ethylene	PTFE	240℃	260℃	Applicable to the working conditions with high-corrosive gas, such as chemical, metal smelting, waste incineration industries, cement kiln and coal-fired boiler.	Excellent resistance to all chemical influences.
Fiberglass	GL	240℃	260℃	Applicable to cement kiln filter, power plants, municipal waste incinerators.	Excellent resistance to oxidation. Sensitive to mechanical stress.

AOKAI FILTER BAG CAGE



Filter bag cage post-treatment process

- Galvanization
- Organic Silicon

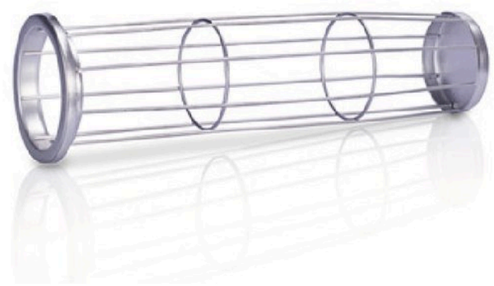
Both of which can effectively protect the filter bag cage, extend the service life of the filter bag cage, and shorten the cycle of replacing the filter bag cage. The galvanized filter bag cage can meet the normal temperature working condition of ≤150° C, and it can prevent corrosion. When the temperature of the filter bag cage exceeds 160 ° C, the high temperature spray treatment of organic silicon can protect the filter bag cage better and it has excellent anti-corrosion function.

Filter bag cage types

Cage Type	Zinic Plating	Organ silicon
Round cage	★	★
Envelope type cage	★	★
Star type cage	★	★
Spring type cage	★	★
U type	★	★







INSPECTION SYSTEM

Perfect tetsing equipment and professional technicians provide a solid foundation for projects such as working condition analysis, filter bag material selection, filter bag testing, flue gas testing and analysis, filter bag life prediction, etc., and escort company production.

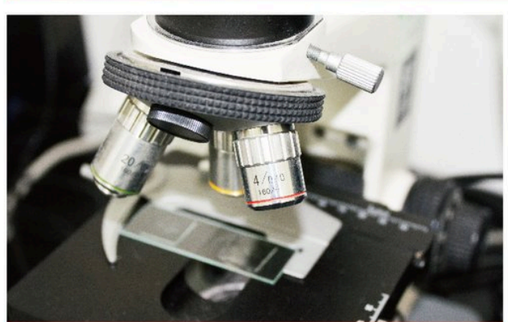
Filter bag selection | Failure Analysis | Smoke detection | Performance Testing

Fiber Analysis Testing | Life Prediction | Analysis and detection of dust collector operationg conditions

The R&D center has introduced advanced testing equipment in the field of filter materials at home and abroad, and can carry out a number of professional filter material project testing, such as the Netherlands Phenom Pure scanning electron microscope, the German FilTEq FEMA 1-AT dust filtration efficiency test system, and the American PMI Capillary Flow Porometer CFP-1100A, FX3300-IV air permeability tester (Switzerland TexTest Instrument), etc.



VDI Filteq FEMA 1-AT dust filtration efficieny test system


CU-2(YG(B)002) fibre fineness integrated analyzer



Phenom Pure scanning electron microscope



PMI capillary Flow Porometer



ESPEC high temperature testing box



TEXTEST FX3300-IV air permeability tester

AOKAI SERVICE



Comprehensive service helps ensure your dust collection system performs efficiently for many years to come and creates a clean and safe work environment.

Operating Conditions & Particle Analysis

- Dust Properties
- Dust Air Volume
- Air-to-Cloth Ratio
- Low-Maintenance Design Features

Filter Media Testing & Analysis

- Physical Characteristics
- Structural Characteristics
- Chemical Characteristics
- Filtration Characteristics







Filter Bag Failure Analysis

Aokai Filter Bag Failure Analysis Service includes Tests & Analysis， Permeability Test, Mullen Burst Strength Test, Tensile Strength Test, and Microscopy Analysis.

Five Modes of Failure Analysis

- mechanical strength
- thermal degradation
- incompatible design
- chemical degradation
- dust penetration (media blinding)

Combining testing findings with the actual operating data, AoKai diagnoses the source of your problem and recommends a corrective action, such as an alternative filter media that’ s better suited to your operating conditions, and improves the performance of your filter bags in terms of lower emissions, higher airflow, and reduction in lost production due to unscheduled downtime.





RECRUITING DISTRIBUTORS WORLDWIDE

We are constantly seeking opportunities to expand our business to new markets and countries, and we do so by cooperating with local distributors. If you care for clean air as we do, and have the expertise and resources in dust filtration and collection industries, contact us! By leveraging Aokai' s R&D capability and manufacturing capacity, together we can make the world a cleaner and better place.



Our distributors might be, but not limited to, one of the followings:

Filter Bag Manufacturers

Being a local filter bag manufacturer, you want to maintain a stable supply chain by leveraging our filter media technologies, manufacturing capacity and inventory.



Baghouse Manufacturers

Aokai custom makes filter bags of specific constructions and sizes in order to make a perfect fit for your baghouse (dust collector).



Spare Parts Provider

Engineering Company

More types of partners ... ...