OMELA
INDUSTRIAL FILTERS

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Innovating for Cleaner Air

Pulse Jet Bag Dust Collector

Filter Bags

Filter Media

Cage

Omela Filtration Co., Ltd

Omela Filtration About

Innovating for Cleaner Air

Omela Filter Inc. is a well-known enterprise specializing in the production and sales of high-quality materials for environmental protection dust removal and filtration and dust removal equipment. The company is located in Minhang District, 201109 Shanghai, China, which covering an area of 59,600 square meters and a building area of 33,000 square meters. It is mainly engaged in the production and sales of various environmental protection industrial dust removal filter bags, filter cloths and related dust removal accessories. The company's products have met the requirements of IS09001:2000 international quality system certification to ensure product quality.

The company's current products are: Fluomes, PPS, Metas, polyester needle felt, Kemal, P84, PTFE needle felt, Boflus, Flunel, Simex, Bomes, glass fiber felt , Industrial screens, filter elements, stain-less steel sieve plates, etc. produce various types of series of industrial environmental protection dust filter bags, skeletons, filter plates and other products. The professional dust removal products used in steel mills, power plants, cement plants, smelting and other enterprises have been favored by large domestic steel, energy, cement and building material manufacturers, and have become unanimously praised products by cooperative enterprises.

At the same time, the company has also established long-term friendly business relations with neighboring countries, Russia, Singapore, Macau, Hong Kong, Ta-jikistan and other countries and regions, so that the products have a high reputation and brand recogni-tion in the same industry.

In production and operation, the company has always firmly believed in the service tenet of "quality first, integrity first", regards product quality as the life of the company, and seeks development with innovation, pragmatism, and integrity. May we join hands with you for our common homeland and our environmental protection cause. Let's do our responsibility and strength for our common bright future!

Pulse Jet Bag Dust Collector

The Pulse Jet Bag Dust Collector is a highly efficient filtration system designed to capture and remove solid particulates from industrial flue gases. With advanced engineering and optimized design, it is widely applied across industries such as power generation, metallurgy, cement, glass, chemicals, and paper making.

High Filtration Efficiency

Achieves a dust removal efficiency of ⩾99.99%, ensuring clean air discharge in compliance with stringent environmental standards. Insensitive to dust characteristics or electrical resistivity, providing stable performance under varying conditions.

High-Temperature Operation

Operates reliably under continuous high-temperature conditions of 200 ° C and above. Can be equipped with advanced filter materials such as fiberglass, PTFE, and P84 to withstand demanding environments.

Optimized Structure

Temperature-lowering gas inlet design allows coarse, high-temperature particles to fall directly into the hopper, effectively protecting filter bags.

Compact vertical layout with longer filter bags reduces footprint, maximizing production space — ideal for upgrading and retrofitting existing plants.

Offline chamber cleaning ensures high efficiency and minimal secondary dust re-entrainment, reducing wear on filter bags and pulse valves. Simplified maintenance design allows filter bag replacement without system shutdown, minimizing downtime and operational costs.

Innovative Design with Patented Technologies

Developed through integration of both domestic and international best practices. Incorporates Omela’s patented innovations in compressed air pulse cleaning and airflow distribution, ensuring stable operation and long filter bag life.

Performance Benefits

- High dust removal efficiency
- Low pressure drop and energy consumption
- Reduced steel structure requirement → lower overall construction costs
- Compact footprint → suitable for both new installations and retrofits
- Extended filter bag service life → reduced maintenance costs

Model Number	MC24-2	MC36-2	MC48-2	MC60-2	MC72-2	MC84-2	MC96-2	MC120-2
Filter area (m^2)	18	27	36	45	54	63	72	90
Bagquantity(pc)	24	36	48	60	72	84	96	120
Pulse valve(PC)	4	6	8	10	12	14	16	20
Air volume (m^3/h)	2160-4300	3250-6480	4320-8630	5400-10800	6450-12900	7550-15100	8650-17300	10800-20800
Dimension (L×W×H)	1025×1678×3700	1425×1678x3696	1823×1678×3676	2225×1678×3676	2625×1678×3676	3075×1678×3676	3949×1678×3676	4389-1678x3676
Pulse control instrument	JMK-2 type pulse control instrument				JMK-2 type pulse control instrument			
Filter bag size (DXL)	125×2050				125×2050			
Efficiency (%)	99-99.5				99-99.5			
Resistance mmH20	120-150				120-150			
Air speed (m/m)	2-4				2-4			
Dust content (g/m^3)	3-15				3-15			
Air pressure (kg/cm^2)	4				4			
Draught Fan model	4-72-11-4.5A	4-72-11-4.5A	4-72-11-5A	4-72-11-6C	4-72-11-5A	4-72-11-5A	4-72-11-6C	4-72-11-6C
					4-72-11-6C	4-72-11-6C	4-72-11-8C	4-72-11-8C
Compressed air consumption (m^3/m)	0.08-0.34	0.13-0.5	0.17-0.67	0.21-0.84	0.25-1.01	0.3-1.18	0.34-1.34	0.42-1.68
Weight(kg)	830	1106	1224.30	1341.44	1564.32	2012.35	2130.22	2410

Aramid Filter Bag

Omela Meta-Aramid Filter Bags are trusted by the asphalt industry and other high-temperature applications for their outstanding performance and durability. Engineered with precision, these filter bags are specifically designed to deliver reliable filtration in demanding environments.

High Temperature Resistance

Continuous operating temperatures up to 204°C, with peak surges up to 250°C. Maintains dimensional stability at elevated temperatures, ensuring long service life.

Superior Mechanical Strength

High tensile strength and abrasion resistance prevent fibers from breaking or fraying in abrasive operating conditions. Ensures strong mechanical stability, helping the filter bag retain its original shape and filtration efficiency.

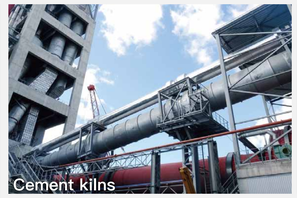
Excellent Chemical Resistance

Resistant to a wide range of chemical exposures, making it suitable for complex industrial environments. Provides reliable performance even in harsh flue gas conditions.

Durable and Safe

Meta-Aramid fibers withstand extreme heat without melting, extending service life under continuous operation. Reduced risk of shrinkage or deformation compared to conventional filter media.

Applications



ITEM	OM-AR250N	OM-AR145N	OM-AR200P	OM-AR200N	OM-AR180N	OM-AR180P	OM-AR160N
Working temperature (°C)	204	204	204	204	180	180	160
Peak temperature (°C)	250	250	250	240	220	220	200
Emission (mg)	10	20	20	20	20	20	/
Weight (g/m^2)	500±5%	450±5%	450±5%	450±5%	450±5%	450±5%	600±5%
Thickness (mm)	2.4±10%	2.2±10%	2.2±10%	2.4±10%	2.2±10%	2.2±10%	2.6±10%
Air permenability ($m^3/m^2/min$)	20±20%	22±20%	22±20%	26±20%	24±20%	20±20%	22±20%
Tensile strength / warp	⩾900	⩾900	⩾900	⩾900	⩾900	⩾900	⩾900
Tensile strength / weft	⩾1200	⩾1200	⩾1200	⩾1200	⩾1200	⩾1200	⩾1200
Tensile elongation / warp	⩽25	⩽25	⩽25	⩽25	⩽25	⩽25	⩽25
Tensile elongation / weft	⩽50	⩽50	⩽50	⩽50	⩽50	⩽50	⩽50
24-hour heat shrink / warp	⩽1.5	⩽1.5	⩽1.5	⩽1.5	⩽1.5	⩽1.5	⩽1.5
24-hour heat shrink / weft	⩽1.0	⩽1.0	⩽1.0	⩽1.0	⩽1.0	⩽1.0	⩽1.0
Post-processing	Heat Setting / Singeing / Calendering						

Acrylic Filter Bag

Omela Acrylic filter bags are designed for medium–temperature industrial applications where moisture resistance, acid resistance, and stable performance are critical. With excellent hydrolysis resistance and good mechanical properties, Acrylic filter bags are a reliable choice in industries where humidity and chemical attack are common challenges.

Temperature Resistance

Continuous operating temperature up to 125°C, with peaks up to 150°C.

Suitable for environments with moderate heat such as drying systems and chemical processing.

Excellent Hydrolysis Resistance

Strong resistance to hydrolysis, making Acrylic filter bags ideal for high–humidity flue gas applica–tions.

Maintains filtration efficiency in moisture–rich environments where other fibers degrade quickly.

Chemical Resistance

Good resistance to acids and oxidizing agents.

Performs reliably in industries such as fertilizer, waste incineration, and food processing.

Mechanical Strength

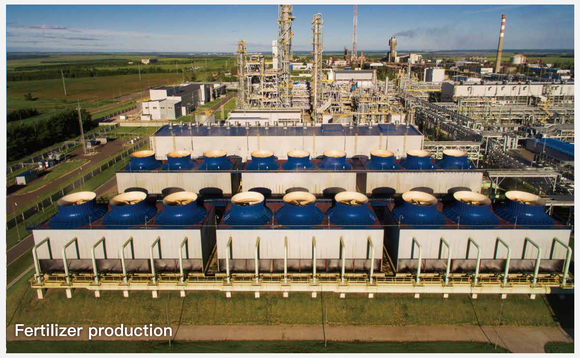
Balanced tensile strength and flexibility ensure stability and durability during operation.

Reduced risk of shrinkage, deformation, or fiber breakage.

Cost–Effective Solution

Compared with high–temperature specialty fibers, Acrylic offers an economical balance of perfor–mance and price. Ensures long service life with lower overall operating costs.

Applications



ITEM	OM–AC130N	OM–AC130T
Working temperature (°C)	130	130
Peak temperature (°C)	150	150
Emission (mg)	/	/
Weight (g/m²)	550±5%	550±5%
Thickness (mm)	3.0±10%	2.4±10%
Air permenability (m³/m²/min)	14±20%	16±20%
Tensile strength / warp	⩾800	⩾900
Tensile strength / weft	⩾800	⩾1200
Tensile elongation / warp	⩽35	⩽35
Tensile elongation / weft	⩽50	⩽50
24–hour heat shrink / warp	⩽1.5	⩽1.5
24–hour heat shrink / weft	⩽1.0	⩽1.0
Post–processing	Heat Setting / Singeing / Calendering	

Fiberglass Filter Bag

Omela Fiberglass (Glass Fiber) filter bags are specifically engineered for high-temperature and corrosive industrial applications. With excellent dimensional stability, high tensile strength, and superior temperature resistance, fiberglass filter bags are a reliable solution for industries requiring consistent performance under extreme conditions.

High Temperature Resistance
Continuous operating temperature up to 260° C, with short-term peaks up to 280—300° C. Ideal for applications such as cement kilns, steel furnaces, and power plant boilers.

Excellent Chemical Resistance
Resistant to acids, alkalis, and oxidizing agents. Performs reliably in aggressive gas environments, including those with SOx and NOx.

Dimensional Stability
Glass fibers maintain structural integrity at high temperatures, preventing shrinkage or deformation. Ensures consistent filtration efficiency over extended service life.

Mechanical Strength
High tensile strength and abrasion resistance reduce bag damage in demanding conditions. Extended service life lowers maintenance costs and downtime.

Custom Surface Treatments
Can be treated with PTFE membrane, silicone, or graphite coatings to enhance filtration efficiency, dust release, and resistance to chemical attack.

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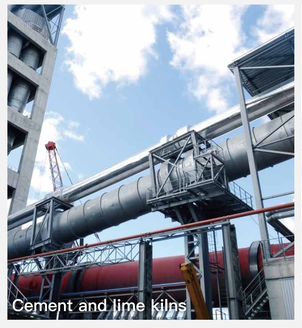
Applications



✨ Omela Fiberglass Filter Bags provide a perfect balance of heat resistance, chemical stability, and durability, making them the trusted choice for extreme industrial filtration environments.

ITEM	OM-FG180M	OM-FG240M	OM-FG240M
Working temperature (°C)	180	240	200
Peak temperature (°C)	220	260	240
Emission (mg)	/	/	/
Weight (g/m²)	⩾900	⩾900	⩾900
Thickness (mm)	3.2±10% (3.0±10%)	3.2±10% (3.0±10%)	3.2±10% (3.0±10%)
Air permenability (m³/m²/min)	15-28 (2-5)	15-28 (2-5)	15-28 (2-5)
Tensile strength / warp	⩾1500	⩾1500	⩾1500
Tensile strength / weft	⩾1500	⩾1500	⩾1500
Tensile elongation / warp	⩽10	⩽10	⩽10
Tensile elongation / weft	⩽10	⩽10	⩽10
24-hour heat shrink / warp	⩽1.5	⩽1.5	⩽1.5
24-hour heat shrink / weft	⩽1.0	⩽1.0	⩽1.0
Post-processing	PTFE Dipping / PTFE Membrane		

P84 Filter Bag

Omela P84 (Polyimide) filter bags are engineered for high-temperature and chemically challenging environments, where stable performance, low emissions, and long service life are critical. With their unique trilobal fiber cross-section, P84 filter bags deliver exceptional fine dust filtration efficiency and low operating pressure drop, making them an excellent choice for industries with stringent emission requirements.

High Temperature Resistance

Continuous operating temperature up to 240°C, with short-term peaks up to 260°C. Maintains filtration stability in power plants, cement kilns, and chemical industries.

Exceptional Fine Dust Filtration

Unique trilobal fiber structure increases surface area, capturing submicron dust effectively. Achieves ultra-low emission levels, suitable for industries facing strict environmental standards.

Chemical Resistance

Excellent resistance to acid gases and oxidizing agents.Performs well in waste-to-energy plants, incinerators, and coal-fired boilers where flue gas is chemically aggressive.

Energy Efficiency

Low initial pressure drop and excellent dust release properties. Reduces fan energy consumption and extends filter life.

Mechanical & Dimensional Stability

Strong tensile properties ensure bag integrity under demanding conditions. Resistant to shrinkage, ensuring long service life even in continuous high-temperature cycles.

Applications

ITEM	OM-P84-240N	OM-P84-240E
Working temperature (°C)	240	240
Peak temperature (°C)	260	260
Emission (mg)	/	/
Weight (g/m²)	550±5%	550±5%
Thickness (mm)	2.8±10%	2.8±10%
Air permenability (m³/m²/min)	20±20%	16±20%
Tensile strength / warp	⩾900	⩾900
Tensile strength / weft	⩾1200	⩾1200
Tensile elongation / warp	⩽25	⩽25
Tensile elongation / weft	⩽50	⩽50
24-hour heat shrink / warp	⩽1.5	⩽1.5
24-hour heat shrink / weft	⩽1.0	⩽1.0
Post-processing	Heat Setting / Singeing / Calendering / PTFE Dipping / PTFE Membrane	

Polyester Filter Bag

Omela Polyester filter bags are widely used in general industrial dust collection applications due to their excellent mechanical strength, cost–effectiveness, and resistance to a variety of common dust types. With reliable performance under medium temperature conditions, Polyester filter bags are the most economical and versatile choice for many industries.

Good Temperature Resistance

Continuous operating temperature up to 130 ° C, with peaks up to 150 ° C. Stable performance in drying, grinding, and general dust collection processes.

Excellent Mechanical Strength

High tensile strength and abrasion resistance ensure long–lasting performance. Provides structural stability, even in high–dust, abrasive environments.

Chemical Resistance

Resistant to most common organic acids and oxidizing agents. Performs well in environments with moderate chemical exposure.

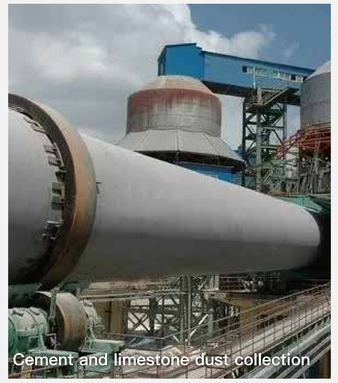
Hydrolysis Resistance (Enhanced Options Available)

Standard polyester has limited resistance to hydrolysis in high–humidity flue gas. Omela offers sur–face–treated and laminated polyester options for better moisture and chemical resistance.

Cost–Effective Solution

Lower initial investment compared with specialty fibers such as PPS, PTFE, or Aramid. Ideal for in–dustries requiring reliable performance at moderate cost.

Applications



ITEM	OM–PE130N	OM–PE130F	OM–PE130E
Working temperature (°C)	130	130	130
Peak temperature (°C)	150	150	150
Emission (mg)	/	10	5
Weight (g/m²)	550±5%	550±5%	530±5%
Thickness (mm)	2.2±10%	2.2±10%	1.9±10%
Air permenability (m³/m²/min)	14±20%	12±20%	13±20%
Tensile strength / warp	⩾1000	⩾1000	⩾1000
Tensile strength / weft	⩾1400	⩾1400	⩾1400
Tensile elongation / warp	⩽35	⩽35	⩽35
Tensile elongation / weft	⩽50	⩽50	⩽50
24–hour heat shrink / warp	⩽1.5	⩽1.5	⩽1.5
24–hour heat shrink / weft	⩽1.0	⩽1.0	⩽1.0
Post–processing	Antistatic / Water & Oil Repellent / PTFE Dipping / PTFE Membrane		

PPS Filter Bag

Omela PPS (Polyphenylene Sulfide) filter bags are engineered to deliver exceptional performance in demanding industrial environments such as coal-fired boilers, waste incineration, cement kilns, steel mills, and chemical plants. With outstanding resistance to heat, chemicals, and hydrolysis, they are the preferred choice where emission standards are strict and operating conditions are harsh.

High Temperature Resistance

Omela PPS needle felt can withstand continuous operation at 160 ° C and short-term peaks up to 200 ° C, making it suitable for high-temperature filtration in power generation and heavy industry.

Chemical Resistance

Excellent resistance against acids, alkalis, and organic solvents, ensuring stable performance in chemical processing plants, refineries, and metallurgical industries.

Mechanical Strength

Reinforced PPS fiber structure provides high tensile strength and dimensional stability, guaranteeing long service life even under abrasive and high-load dust conditions such as cement production and steel smelting.

Hydrolysis Resistance

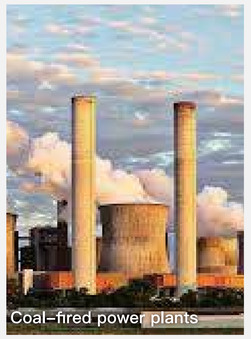
Omela PPS filter media is highly resistant to hydrolysis, performing reliably in environments with high humidity, water vapor, or flue gas with SOx/NOx, such as coal-fired boilers and biomass plants.

Why Choose Omela PPS Filter Bags?

- Dedusting efficiency up to 99.99%
- Flame retardant and stable under corrosive atmospheres
- Extended service life → lower replacement cost and downtime
- Widely proven in cement, power, steel, glass, and chemical industries

✨ Omela Filtration provides tailored PPS baghouse filter solutions designed for high-performance dust collection systems, helping industries achieve compliance, reliability, and efficiency.

Applications


Coal-fired power plants


Waste incineration


Cement kilns


Steel mills

ITEM	OM-PPS160N	OM-PPS160T	OM-PPS160D	OM-PPS160E	OM-PPS170D
Working temperature (°C)	160	160	160	160	170
Peak temperature (°C)	190	190	190	190	200
Emission (mg)	/	/	10	5	/
Weight (g/m^2)	550±5%	550±5%	580±5%	530±5%	650±5%
Thickness (mm)	2.0±10%	2.0±10%	2.2±10%	1.9±10%	2.0±10%
Air permenability ($m^3/m^2/min$)	16±20%	16±20%	11±20%	13±20%	10±20%
Tensile strength / warp	⩾900	⩾900	⩾900	⩾900	⩾900
Tensile strength / weft	⩾1200	⩾1200	⩾1200	⩾1200	⩾1200
Tensile elongation / warp	⩽25	⩽25	⩽25	⩽25	⩽25
Tensile elongation / weft	⩽50	⩽50	⩽50	⩽50	⩽50
24-hour heat shrink / warp	⩽1.5	⩽1.5	⩽1.5	⩽1.5	⩽1.5
24-hour heat shrink / weft	⩽1.0	⩽1.0	⩽1.0	⩽1.0	⩽1.0
Post-processing	Heat Setting / Singeing / PTFE Membrane				

PTFE Filter Bag

Omela PTFE (Polytetrafluoroethylene) filter bags are engineered for the most demanding industrial filtration applications. With outstanding chemical inertness, high-temperature endurance, and non-stick surface properties, PTFE filter bags are the ultimate solution for industries requiring the highest level of performance, safety, and durability.

Extreme Temperature Resistance

Continuous operating temperature up to 250° C, with peaks up to 280° C. Stable performance under long-term high heat conditions in power generation, incineration, and chemical processing.

Outstanding Chemical Resistance

Complete resistance to acids, alkalis, oxidants, and almost all organic solvents. Suitable for the harshest environments, including waste-to-energy, chemical, and metallurgical plants.

Non-stick & Easy Cleaning

PTFE’ s low surface energy prevents dust adhesion, enabling efficient pulse-jet cleaning. Ensures lower pressure drop, stable airflow, and reduced energy consumption.

Hydrolysis & UV Resistance

Excellent stability in humid, vapor-rich, and outdoor applications. Resistant to hydrolysis, oxidation, and UV degradation, ensuring long service life.

Durability & Safety

High tensile strength and dimensional stability provide resistance to mechanical stress.

Applications

ITEM	OM-PTFE240N	OM-PTFE240M	OM-PTFE240H	OM-PTFE240E	OM-PTFE240X
Working temperature (°C)	240	240	240	240	240
Peak temperature (°C)	260	260	260	260	260
Emission (mg)	/	/	/	/	10
Weight (g/m^2)	750±5%	750±5%	800±5%	800±5%	800±5%
Thickness (mm)	1.5±10%	1.0±10%	1.6±10%	1.2±10%	1.6±10%
Air permenability ($m^3/m^2/min$)	12±20%	2-5	10±20%	2-5	8±20%
Tensile strength / warp	⩾800	⩾800	⩾800	⩾800	⩾800
Tensile strength / weft	⩾800	⩾800	⩾800	⩾800	⩾800
Tensile elongation / warp	⩽10	⩽10	⩽10	⩽10	⩽10
Tensile elongation / weft	⩽20	⩽20	⩽20	⩽20	⩽20
24-hour heat shrink / warp	⩽2.0	⩽2.0	⩽2.0	⩽2.0	⩽1.5
24-hour heat shrink / weft	⩽1.0	⩽1.0	⩽1.0	⩽1.0	⩽1.0
Post-processing	Heat Setting / PTFE Membrane				

Omela Filtration Co., Ltd

Engineering and Services

Dust Collector Refurbishment Service

In industries such as coal-fired boilers, waste incineration, and solid waste treatment, baghouse dust collectors are often subject to the following issues due to harsh operating conditions.

Filter Bag Failure Analysis Service

Why is there abnormal pressure drop? Why do filter bags have a much shorter service life than expected? Understanding the root causes of filter bag failure can help you save replacement costs, which are one of the major operating expenses for baghouse systems.

Dust Collection System Maintenance

In industrial plants, dust collection systems are essential for maintaining clean air and improving air quality.

Dust Filter Bag Removal & Installation Service

Omela provides professional filter bag removal and installation services to inject new energy into your equipment, ensuring continuous and efficient operation.

Fluorescent Powder Leak Detection Service

What is fluorescent powder leak detection? The principle is that fluorescent powder is sprayed into the baghouse, where it drifts to areas with small resistance and accumulates near leakage points.

On-Site Condition Analysis & Filter Media Selection

With a deep understanding of various dust properties and chemical characteristics, Omela provides customized filter material solutions tailored to your working conditions and filtration efficiency needs, ensuring optimal dust collection results.