



PUREAIR (ASIA) PTE LTD

BLK 4009 ANG MO KIO AVE 10

TEL: +65 6456 2388

#04-37 TECHPLACE I S'PORE 569738

FAX: +65 6456 8266

WWW.PUREAIR-ASIA.COM

Co.REG. No: 200915775R

GST.REG. No: 20-0915775-R

Dust filter bags----filter bags for dust collection

★acrylic filter bag

★P84 (polyimide) filter bag

★PTFE membrane filter bag

★PTFE filter bag

★anti-static filter bag

★polyester filter bag

★FMS filter bag



★Aramid (Nomex) filter bag

★water and oil repellent filter bag

★PPS filter bag

Dust Filter Bags / filter sleeves is the key part of the bag style dust collectors (bag filter houses), which widely used in many industrial occasions for dust collection, such as cement plants, thermal power plants, food processing plants, pharmaceutical factories, metallurgy plants, fertilizer plants and chemical plants, etc so as help to control the air pollution.

PureAir can provide various dust filter bags for pulse jet bag filter houses and reverse blown bag filter houses, or some special designed filters.

The dust filter bags from Suita Filtech are made from various fibers with various finish treatment according to different working condition of the bag filter houses in different industrial occasions.

The sound designed dust filter bags or dust collector bags sometimes we called are very efficient and offer long-lasting excellent functionality and the emission much lower than electrostatic dust filters and always can meet the emission requirements of the clients.

The advantages of dust collector filter bags:

1. Low maintenance cost.
2. High filter efficiency.
3. Not affected by the composition of the dust air.

The dust filter bags made of different fibers, mainly as following:

A. Acrylic homopolymer dust filter bag:

Acrylic homopolymer dust filter bag are made of acrylic needle felt, which with a mainly advantages of hydrolysis resistant.

Continuous service temperature: 125 degree C.

Instant peaks: 140 degree C.





PUREAIR (ASIA) PTE LTD

BLK 4009 ANG MO KIO AVE 10

TEL: +65 6456 2388

#04-37 TECHPLACE I S'PORE 569738 FAX: +65 6456 8266

WWW.PUREAIR-ASIA.COM

Co.REG. No: 200915775R

GST.REG. No: 20-0915775-R

B. Antistatic dust filter bag :

Some industrial dust will blast once met the static discharge if the flammable and combustible materials' content comes to a certain extent, which will bring the explosion and fire, especial easily to happen when collect the dust in flour mills, chemical plants and coal industries, etc. So in the dedusting application of this case, the dust should be collected with special dust bags which are anti-static. PureAir absorbed the advanced technologies and developed the anti-static needle felts and woven cloths which can meet the special demands of the dust collection of blast furnace gas and coal gas in the cement industry, etc.



C. Aramid dust filter bags

In normal temperature circumstance (under 150 C), the polyester needle felt will satisfy the bag filter systems, if the temperature on the high side, such as tail gas/fume/dust from metallurgical plant, carbon black plant, iron works (blast furnace gas), cement plant (tail gas from vertical kiln), petroleum fumes from mixing round the beton and asphaltum, coal fired boiler, etc, the normal filter method won't work. The reason as following:

1. be restricted by specific resistance, the electronic filter system won't works, so the bag filter system is the first choice for dust/fume removal.
2. if the user try to reduce the temperature (made it under 150 C), which will increase the investment and also be restricted by field.
3. just because there may contain some material such as sulfur in the gas/fume, the acid dew will exist. Aramid needle felt, besides equip the ability of spinnability, abrasion resistance, they also with the ability of high temperature resistance, flame resistance, infusibility. The fiber won't self-ignite, when the temperature up to 400 C, the aramid fiber will carbonization gradually. Besides, aramide fiber also with a good dimensional stability, long service life.



D. P84 dust collector bags :

Some industrial dust will blast once met the static discharge if the flammable and combustible materials' content comes to a certain extent, which will bring the explosion and fire, especial easily to happen when collect the dust in flour mills, chemical plants and coal industries, etc. So in the dedusting application of this case, the dust should be collected with special dust bags which are anti-static.

PureAir absorbed the advanced technologies and developed the anti-static needle felts and woven cloths which can meet the special demands of the dust collection of blast furnace gas and coal gas in the cement industry, etc..





PUREAIR (ASIA) PTE LTD

BLK 4009 ANG MO KIO AVE 10 TEL: +65 6456 2388
#04-37 TECHPLACE I S'PORE 569738 FAX: +65 6456 8266
WWW.PUREAIR-ASIA.COM Co.REG. No: 200915775R
GST.REG. No: 20-0915775-R

E. Polyester (PET) dust filter bags :

Polyester dust filter bags made of polyester needle felt filter cloth, which adopt the sound needle punching nonwoven workmanship, with the properties of stable physical dimension, easy cake release, good air permeability, widely used for industrial dust collection and liquid filtration, etc.

After water-oil repelled treatment, which can be used as the filter media in the circumstance contain the moisture and oil mist for a long time.

We also can finish them with PTFE membrane, which will with the properties of smooth surface, easy cake release, high filter efficiency, save energy, long life, etc.

Mainly applications:

1. Chemicals processing: dryers, bin vents, and nuisance dust collectors in the pigment, plastic, and catalyst industries
2. Minerals processing: finish mills, raw mills, bulk pneumatic conveying, and bin-vent dust collectors
3. Metals processing: process-venting dust collectors in the lead, lead oxide, and iron and steel industries. Pulverized-coal injection systems, fume and bulk handling systems in coke production and sand-reclamation systems in foundries
4. Power generation and Incineration: material handling for coal and limestone



F. Water and Oil Resistant dust collector bags:

After water-oil repelled treatment, the filter bags can be use in the circumstance of moisture and oil mist for a long time, so which is not easy to be blocked even if there is any dew points in the bag filter house.



G. Filter Bags with PTFE Membrane Laminatine

These dust collector filter bags are employed in all the dust collector applications. The expanded PTFE Membrane permits more air to pass through the filter media while trapping particles on the surface. Using this form of dust collector filter bags engineers can reduce capital and operational costs. Use of this style of dust collector filter bags also present a degree of protection from the unknown and indirect-able changes that sometimes occur during bag house operations.





PUREAIR (ASIA) PTE LTD

BLK 4009 ANG MO KIO AVE 10

TEL: +65 6456 2388

#04-37 TECHPLACE I S'PORE 569738

FAX: +65 6456 8266

WWW.PUREAIR-ASIA.COM

Co.REG. No: 200915775R

GST.REG. No: 20-0915775-R

Other types dust collector filter bags are made of:

1. Glass fiber / FMS filter bags:

Fiber glass needle punched felt is a reasonable new type of filter media used for fiber bags in high temperature circumstance, which with the properties of three dimensional cellular structure, with a high hold rate, low air resistance, the filter efficiency will superior than woven filter fabrics can up to 99.9%, with a high filter velocity will the two times when compare with other normal woven filter fabrics, this fabrics widely used in carbon plant, chemical plant, metallurgical plant, coal fired boiler, etc. Fiber glass needle felt applicable to the pulse jet bag filter system, high temperature and corrosion resistance, with good performance for manage the industrial dust pollution, and recycle the valuable particles.

Fiber glass blend with other high temperature resistance fiber needle felt, we called FMS. FMS is a good high temperature resistance filter fabrics, this fabrics mainly made by 5.5 micron diameter glass fiber blend with P84 (polyimide), aramid(Nomex), PPS (ryton) fiber, with the three dimensional cellular structure, low air resistance, especial blend with P84 which with leaf style fiber, can increase the filter surface (80%), so easy to collect the dust, increase the fiber cohesion, can accept the high wind speed (50% higher about 1~1.4m/min), and also with the properties of abrasion resistance. This kind of fabrics widely used in metallurgical plant, chemical plant, coal fired boiler, incinerator, cement plant for dust collector or smoke filtration in high temperature circumstance.



2. Poly-P-Phenylene Sulfide(PPS) dust filter bags

PPS is one of the best filter materials with the properties of anti -acid, anti-alkali, hydrolysis resistant, but it is not so good at anti -oxidant. Mainly be applied in waste incinerators, electric station boiler, industrial boiler, etc.

PureAir provide PPS needle felt for dust collecting in cement plants, iron and steel plants, power plants, chemical plants, etc, the weight from 400g/sqm to 750 g/sqm can be customized.



3. PTFE (Polytetrafluoroethylene) Needle Punched Filter Felt

PTFE filter material also called Teflon, with a good performance in the temperature of 260 centigrade, the instant temperature can up to 280 centigrade. PTFE is a special material with a good alkali and acid resistance, anti-hydrolysis, stable physical dimension, mainly used in coal burning boiler, waste incineration, carbon black producing, TiO2 producing for fume treatment or dust collection, as well as some high temperature or some corrosive liquid filtration.

