




INDUSTRIAL DUST FILTER BAGS



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INTRODUCTION

Dust filter bag refers to the matching accessories in the dust collector.

In the production process of thermal power generation, iron and steel, coking, non-ferrous smelting and cement industries, a large amount of dust will be generated, which will cause serious pollution to the environment.

Therefore, the state has formulated strict requirements for the dust emissions of such enterprises, and bag dust removal is an ideal solution that is widely used.

Dust filter bag is called the heart of the bag filter and plays a very important role in the dust removal effect.

INTRODUCTION

FILMEDIA provides a wide range of high quality filter bags for industrial Dust Collector. Our Extended Life filter bag provides superior filtration of all sized particles.

Capacity: 2000pcs (standard size)

Bag Size: customized

Bag Head: snap band, snap ring, endless felt, felt strip, thick felt, etc.

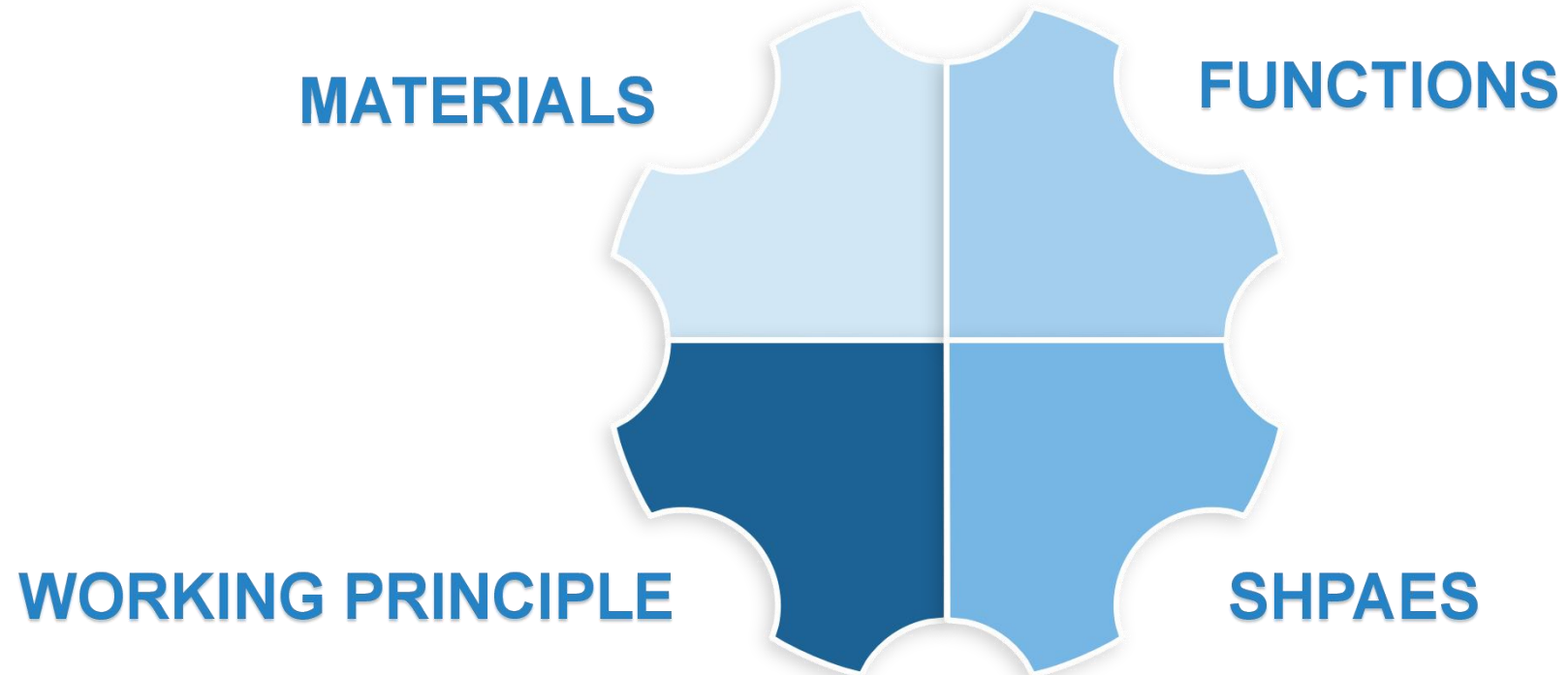
Bag Body: stitching, hot welding

Bag Bottom: single bottom, double bottom, with reinforcement, without reinforcement



02

FILTER BAG TYPES



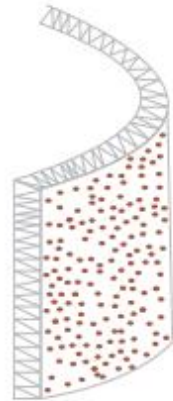


MATERIALS

Material	Working Temperature	Instant Temperature	Abrasion Resistance	Hydrolysis Resistance	Acid Resistance	Alkali Resistance	Oxidation Resistance
Polyprolene Needle Felt	90°C	110°C	Good	Excellent	Excellent	Excellent	Middle
Acrylic Needle Felt	120°C	130°C	Middle	Good	Good	Middle	Good
Polyester Needle Felt	130°C	150°C	Excellent	Poor	Middle	Fair	Good
PPS Needle Felt	180°C	200°C	Good	Excellent	Excellent	Excellent	Fair
Aramid Needle Felt	204°C	220°C	Good	Middle	Middle	Good	Middle
P84 Needle Felt	240°C	260°C	Good	Middle	Middle	Middle	Good
PTFE Needle felt	250°C	280°C	Good	Excellent	Excellent	Excellent	Excellent
Fiberglass Needle Felt	250°C	280°C	Fair	Good	Middle	Fair	Good
Woven Fiberglass Filter Cloth	260°C	280°C	Good	Good	Good	Good	Good

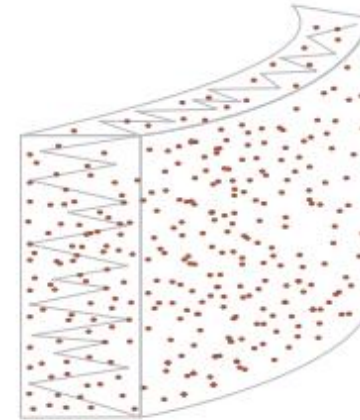
Filtration Principle in Woven and Non-woven Fabric

Filtration Principle in woven fabric



In a woven fabric, the particle gets collected by one or more of the mechanisms (like interception, internal impaction etc.) resulting in a build up of 'dust cake' which is mostly on the surface.

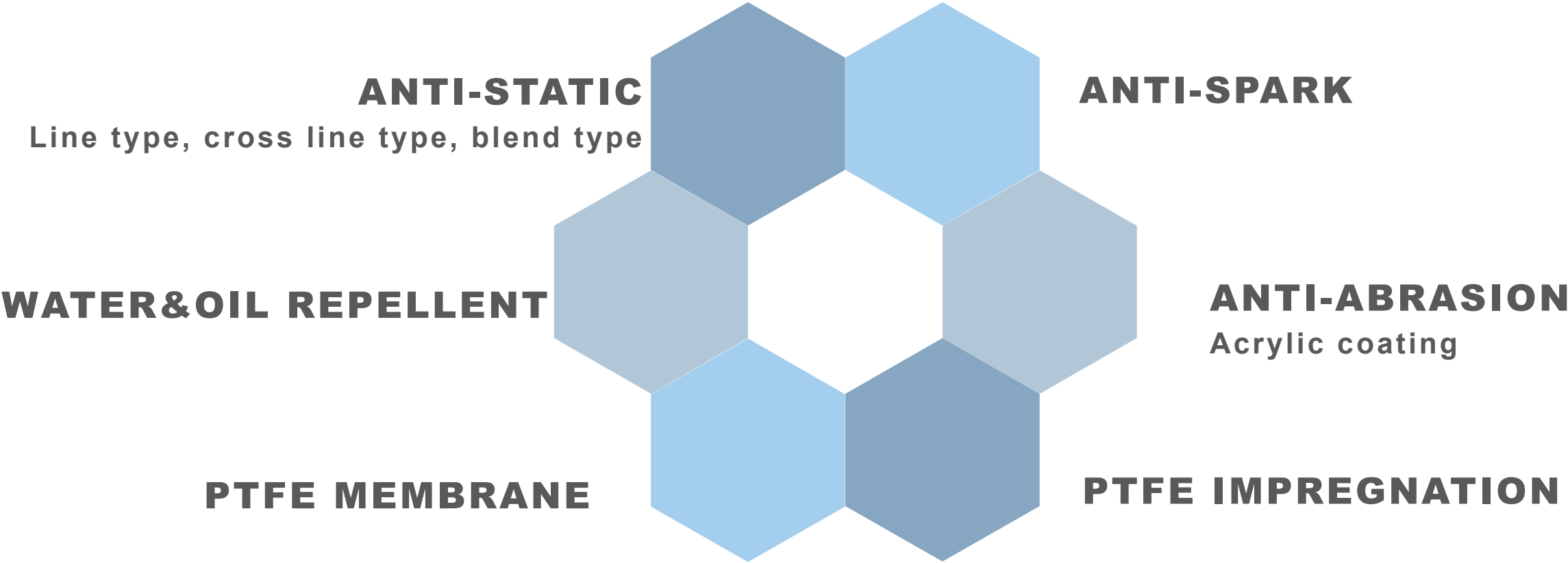
Filtration Principle in non-woven fabric



In a non-woven fabric, the filtration is not only on the surface resulting in a build up of 'dust cake' but also in-depth.



FUNCTIONS



SHAPES



ROUND TYPE

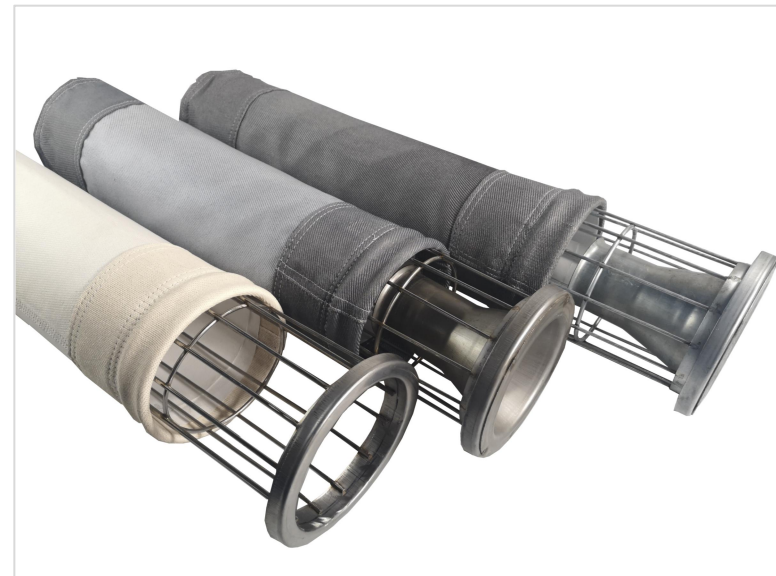


FLAT TYPE



PLEATED TYPE

WORKING PRINCIPLE



Pulse Jet Filter Bag



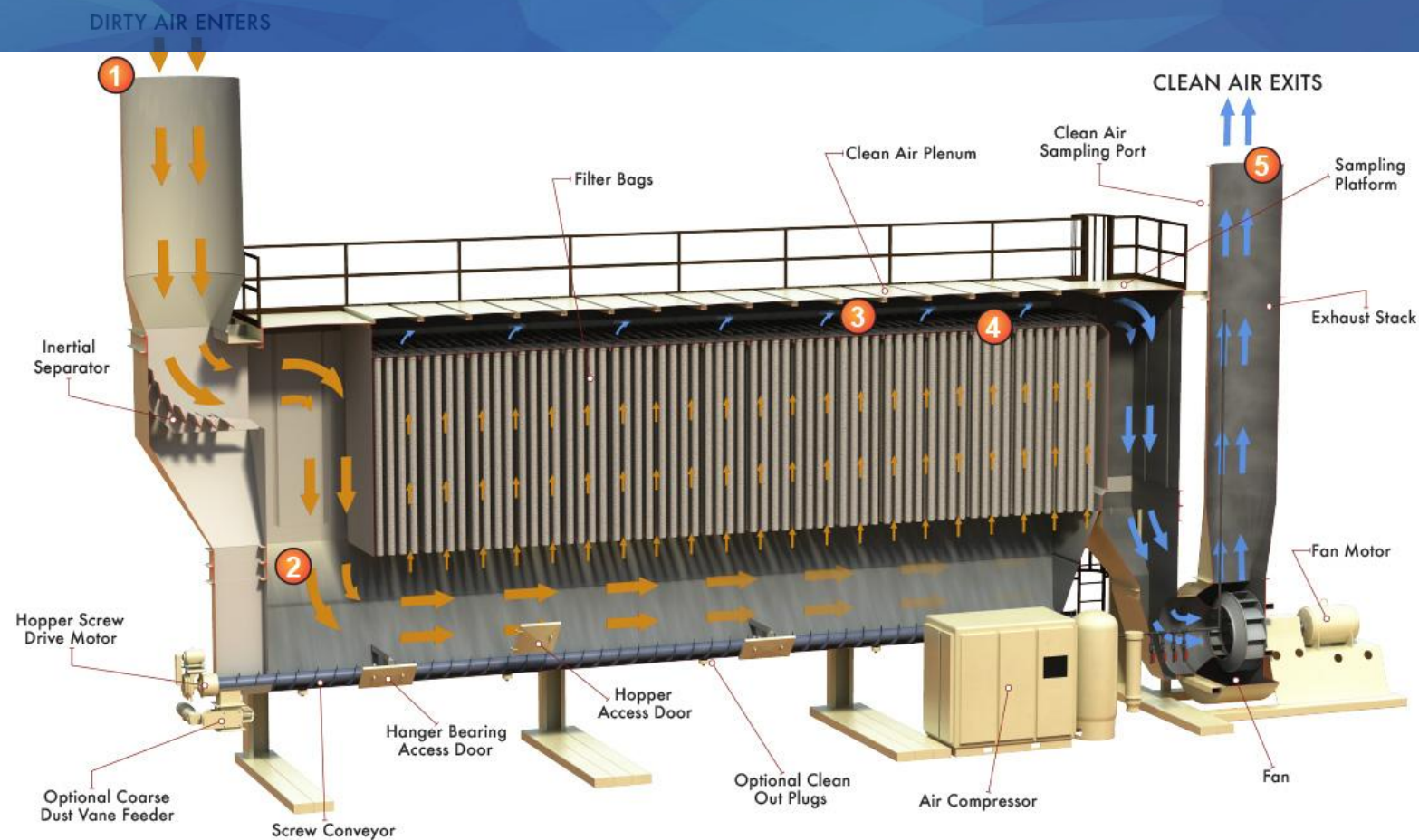
Reverse Air Filter Bag



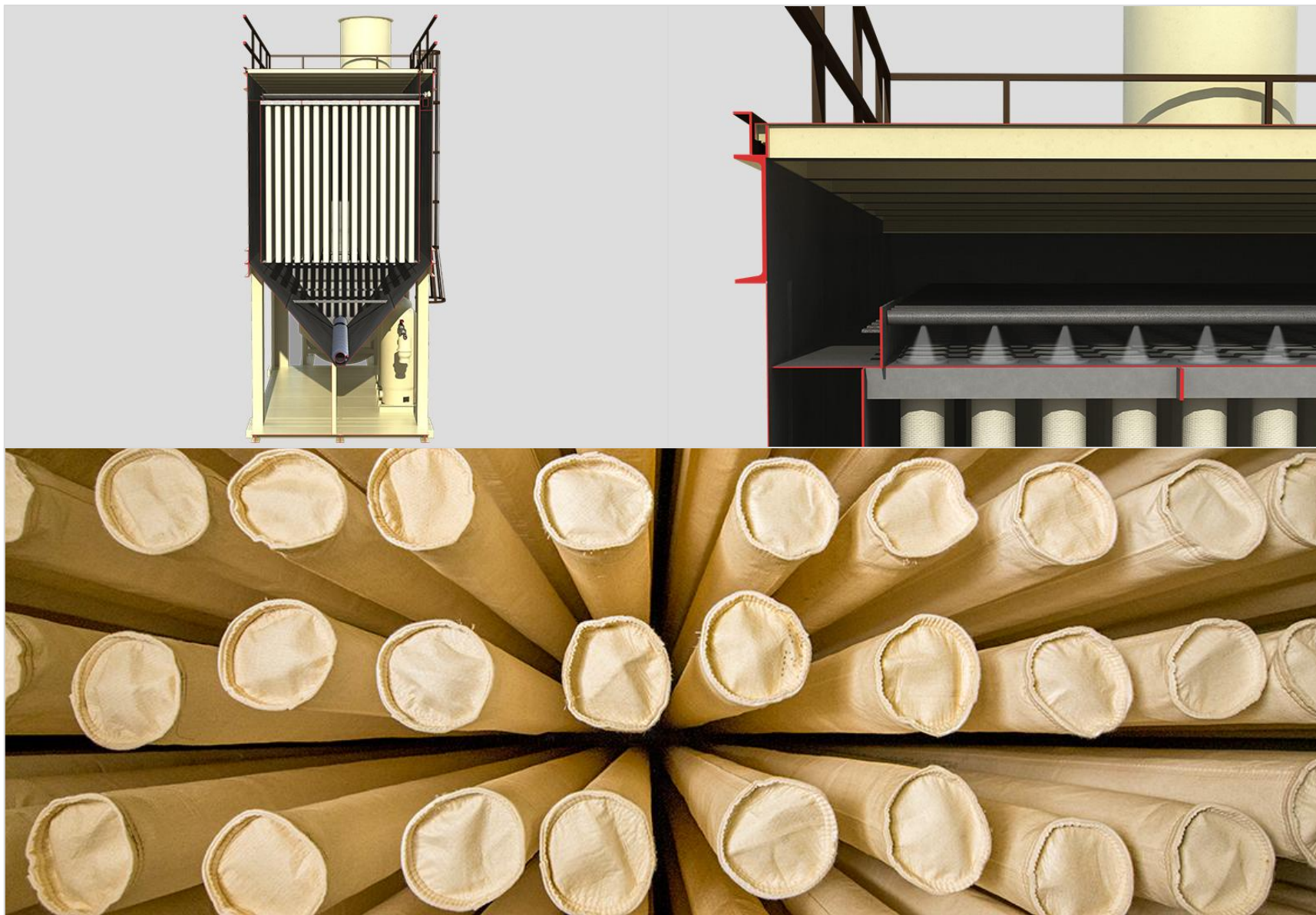
Shaker Filter Bag

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HOW DOES IT USE?



HOW DOES IT USE?



04

APPLICATION

Cement Plant



Asphalt Plant



Carbon Black



Ferroalloy



Iron&Steel Plant



Power Plant



Waste Incineration

Ferroalloy

CEMENT FACTORY

Spots	Temperature	Filter Bag Material	Remark
Raw Mill	<100°C	Polyester/ Polyester with PTFE membrane	/
Coal Mill	100°C	Anti-static polyester/ acrylic	130X2450mm
Kiln (Small burning particle Alkaline High temperature)	150-260°C	Woven fiberglass with PTFE membrane/ Aramid with PTFE membrane/ P84/ FMS	160X6000mm
Clinker/Cooler (Big burning particle Faintly acid High temperature)	180-260°C	Woven fiberglass with PTFE membrane/ Aramid with PTFE membrane/ P84/ FMS	160X5000mm 160X6000mm 160X7000mm
Cement Mill/Finsh Mill/ Silos/ Packing Stations	110-125°C	Polyester/ Acrylic/ with water&oil repellent	130X2450mm 130X3060mm



IRON & STEEL FACTORY

Polyester



PPS



Aramid



P84



PTFE



Fiberglass

POWER PLANT



PPS Needle Felt Filter Bags

PPS Needle Felt with PTFE Scrim Filter Bags

PTFE+PPS Needle Felt with PTFE Scrim Filter Bags

PPS Needle Felt with PTFE Membrane Filter Bags

PTFE+PPS Needle Felt with PTFE Scrim with PTFE Membrane Filter Bags

CARBON BLACK



Carbon black,
with extremely small particles,
high viscosity,
easy to be pasty bags,
High temperature,
high water vapor content and.
Filter bag mainly plays the role of collecting products.

Woven fiberglass 800gsm
with PTFE membrane finish;

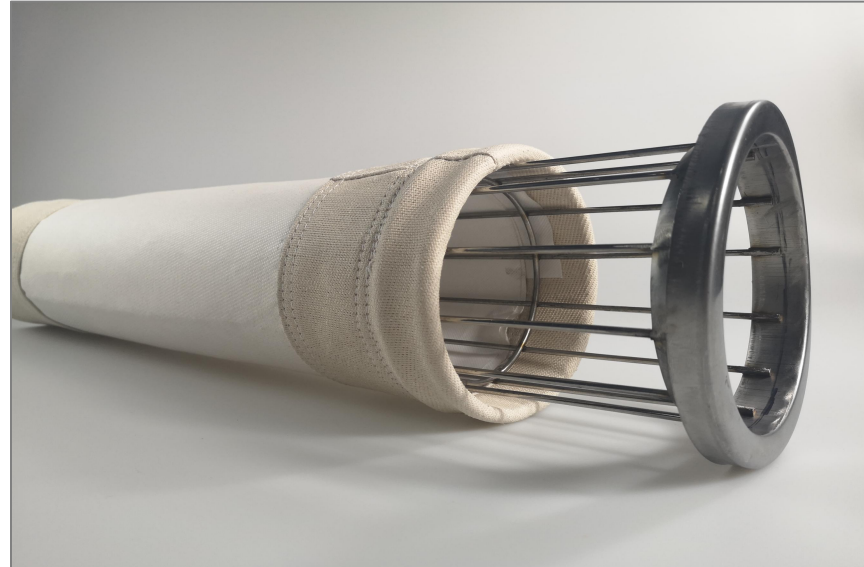
Woven fiberglass 480gsm
with teflon, silicon, graphite finish;

Woven fiberglass 380gsm
with acid resistant, PTFE membrane finish

WASTE INCINERATION



Temperature: 140-260°C
High dust concentration
More corrosive substances
High governance requirements



PTFE Needle Felt Filter Bag;
PTFE Needle Felt with PTFE Membrane Filter Bags;
Woven Fiberglass with PTFE Membrane Filter Bags.

ASPHALT PLANT



Aramid Needle Felt Filter Bags;

Aramid Needle Felt with Fiberglass Scrim Filter Bags

FERROALLOY



High temperature;
Unstable working condition;
Fine and sticky dust;
Easy to be pasty bags;
Required corrosion-resistant material



Woven fiberglass 340gsm
with acid resistance, PTFE membrane finish;

Woven fiberglass 550gsm
with graphite finish, PTFE membrane finish





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