

Product Datasheet

Dust Management Solutions – Bag Filters



TECHNICAL DATASHEET

Dust Management Solutions – Bag Filters

The Bag Filter is a dust control device whose purpose is removing the dust contained in the exhaust gases from industrial process. It is applied to the various applications with different temperature and type of gasses by selecting the filter media accordingly

Products Details



Dust Filter Bags

It is through intense product development over 30 years that, AVK Filtration has developed a unique combination of deniers and scrims to ensure we offer very high filtration efficiencies with superior dust release.

To coincide we offer a full range of filter media ranging from standard polyester, polypropylene and nomex, through to exotic high temperature Teflon and glass fibre filter media, and everything in between.

AVK Filtration covers virtually any style of filter bag, pulse jet top and bottom design systems, reverse air and all shaker models.

Filter Media

Our range of filter media are sourced from world leading filter media manufacturers and then manufactured into filter bags at our manufacturing facility in AVK Filtration.

- Micro denier needlefelts with efficiencies to 99.99% @ 1 micron *
- PTFE membrane on needlefelt or woven cloth with efficiencies to 99.997% @ 0.3 micron *
- Other speciality fibres available on request
- Fabrics available in woven, needlefelt and spun bonded.

Filter Media Operating Temperatures

Polypropylene	Up to 110 Deg C
Homopolymer Acrylic	Up to 125 Deg C
Polyester	Up to 150 Deg C
Aramid	Up to 204 Deg C
PTFE	Up to 260 Deg C
Glass	Up to 260 Deg C

* The efficiencies quoted are relative to filtration velocity and particle size distribution. For further information [contact us](#).



AVK Filter Bag Cuffs

AVK Filtration have developed numerous filter bags cuffs for various applications over the years. If you have equipment from any OEM brands, we have filter bags and cuff designs that suit most dust collectors.

Below are the most commonly used filter bag cuff designs:



For Food Industry Application



For easier installation and location
Of cell plate



For metal ring locking

Specialized Filter Bag Seams

We developed the CIP filter bag seam to ensure that fibres from the seam edge are not able to come loose in a dairy or food industry application. With our expert and experienced sewing team we developed a fold-over seam which is sewn ensuring no open edges are present, meaning no shedding of fibres into the customers product.



Filter Bag Wear Strips and Boots

Wear strips are used to combat abrasion from bag to bag, or bag to cage wear during normal turbulence in the baghouse.

They are applied to the boot of most AVK Filter Bags where wear is most likely to occur. The strips are usually 2 to 4 inches in length and made of a material similar to that of the body of the Filter Bag.



Pleated Bag Filters

Pleated filter bags are the first major breakthrough in fabric filtration since the introduction of PTFE membranes. As the name suggests, the filter bag is pleated to provide up to three times the filtration surface area of a conventional sock on a cage that it replaces. Manufactured from spun bonded polyester filter media and polyurethane tops with either polypropylene or steel cores, the pleated bag comes in a single piece construction for ease of installation and maintenance



A great deal of research, development and field testing has taken place to perfect a bag that will operate at elevated temperatures. The number of pleats, depth of pleats, selection of filter media, number and type of bands, core velocities and cleaning system must all be taken into consideration when selecting the right pleated bags.

New baghouses designed around the pleated bag save space as well as cost with reduced operating costs and downtime. Pleated filter bags increase filtration surface area up to 300%. Custom sizes can be made as required to replace existing socks on cages. Range of standard sizes in stock as below.



Pleated Bag Sizes	
120Ø X 2.0 m (L)	Bottom Loader
124Ø X 2.0 m (L)	Top Loader, Suits any collector with 122-126 Ø tube sheet hole
154Ø X 0.5 m (L)	Suit vacuum cans
154Ø X 1.0 m (L)	Silo vents and Vacuum Cleaners
154Ø X 2.0 m (L)	Standard AVK Filter Bag Size
1.0 (L) X 0.6m(W)	Cell Pleats



Filter Bag Cages

AVK Filtration cages and split cages are available in a variety of sizes and wire thicknesses, depending on your requirements.

They are professionally manufactured, constructed from galvanized or stainless steel and welded for structural stability.

Suitable for the food and dairy industry, contact us for your requirements.



Air Slide Fabric

Used to fluidise powder, in the bottom of powder storage hoppers/bins or conveyors to increase powder transport rates.

Available Sizes - Custom cut to any size. All pieces have salvaged edges to eliminate fraying.

Benefits

- Increased lateral rigidity.
- Consistent air permeability, ensuring even flow rates and accelerated unloading times.
- Reduced installation times.
- Superior abrasion resistance.
- Resists blinding.
- Curved sections easily cut.
- Rot and mildew resistant.

