

KAYSER[®] TEXTILE FILTERMEDIA: YOUR FILTRATION PARTNER

Providing environmental solutions to industry since 1928

- Filter Bags & Cages
- Pleated Filter Elements
- Tensioning & Clamps
- Valves, Header Tanks & Controllers
- Airslides

KAY-TEX



After over 80 years experience in particle filtration and air pollution control **KAYSER** continue being a market leader. This is the reason why **KAYSER** launches **KAY-TEX** to the market.

KAY-TEX is a ePTFE membrane laminated over the surface of any type of filter media, allowing us to improve dramatically the performance of your baghouse. ePTFE membrane is the most advanced technology in air pollution control, giving us an outstanding performance, due to PTFE properties.

ePTFE membrane is a tridimensional network of PTFE filaments with pore dimension below 1 µm, also PTFE hydrophobic and anti-adherent properties allow the surface of the filtration media to stay clean and keep low differential pressure in the system.

Main advantages of **KAY-TEX**:

- Lower emissions. Retention efficiency of particles below 0.5 µm is over 99,99%.
- Lower energy consumption. Reduction on ΔP across the filter reduces fan energy consumption.
- Extended bag life due to his anti-adherent and hydrophobic properties less cleaning and at lower pressure is required, extending bag life.

KAY-PLEAT



KAYSER provides a wide range of quality pleated elements to ensure you the best possible air filtration.

KAY-PLEAT is a replacement for conventional filter bags. This one-piece pleated product manufactured in standard lengths up to 2000mm.

General advantages are:

- Increase capacity of an existing bag-house without mechanical modifications
- Increase filtration area 3 times at lower pressure drop
- Reduce cleaning cycles due to increased area
- Significantly shorter elements than standard filter bags, reducing abrasion
- Reduce installation time
- Can be installed in the existing dust collectors

FILTER BAGS



From Cement production to municipal waste incineration, from biomass to pharmaceutical applications, from food to foundry **KAYSER** filtration products and services are helping worldwide our customers to meet their environmental goals while keeping high efficiency and controlling energy consumption.

KAYSER manufactures all types of filter bags for pulse-jet, reverse air, plenum pulse and shaker dust collectors. Manufacture of filter bags and pockets is located directly next to the needlefelt production. This gives us an extraordinary flexibility in manufacturing and product range.

CAGES



KAYSER Group cages manufacturing is located at ECOTEX facilities in the Czech Republic. **KAYSER** offers a wide range of different cage designs for all established OEM-designs for bag collectors, based on different variables:

- Sizes
- Wire configuration and ring shape
- Materials
- Surface treatments

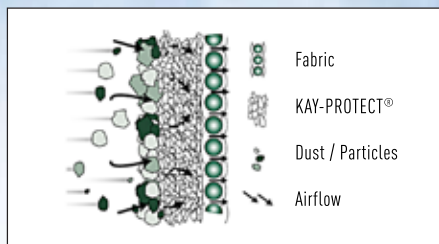
Benefits of **KAYSER** cages are:

- Experience with production of filter bags are the basis of optimal design of supporting cages
- A single supplier for bags & cages simplify your processes and protect your bags of incorrect cage sizing

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KAY-PROTECT®



For an efficient operation of the collector, fabric filters must capture and release particulate during the cleaning cycle. The effectiveness of this process depends on the development of the initial dust cake which protects the fabric interstices and performs the filtration. During start up process unburned particles and moisture can damage the unprotected fabric surface.

KAY-PROTECT® contains a variety of particle sizes and shapes and it is needed to produce an efficient and porous dustcake.

KAY-PROTECT®:

- Increases bag life
- Absorbs up to 3 times his weight in hydrocarbons and moisture
- Increases filtration efficiency
- Inhibits damaging sparks
- Increases airflow over total bag life

AIRSLIDES



KAYSER air slides fabrics are very good technical solutions for the transport and storage of bulk powder goods, made of different fibres:

- Polyester
- Aramid

Applications are silos fluidification and pneumatic conveyors.

TENSIONING ASSEMBLIES



In reverse air collectors, one of the main causes of bag failure is the improper tension.

KAYSER has developed a biconical spring, which can be designed with two different configurations:

- Linear compressibility
- Non-linear compressibility

Benefits of those assemblies are:

- Hitch-pin design allows for ease of maintenance when retensioning
- Easy adjustment and installation which reduces labour time
- Provides the necessary tension to maintain proper collection efficiency
- Prevents abrasion between bags
- Increases bag cleaning efficiency
- Extends bag life

CLAMPS



KAYSER clamps increase bag life by decreasing leakage and abrasion. Each clamp is designed specifically to ensure bag sealing and make filter installation simple.

KAYSER offers a variety of three different designs and sizes, engineered to meet your particular needs.

KAY-GLOW®



KAY-GLOW® allows a quick leakage test in exhaust air cleaning equipment, reducing the time spent by personnel identifying tears, holes and bad seals in bags. It also allows detection of structural air leaks in the system as weld cracks and problems with the fitting of metal enclosure covers. KAY-GLOW® is a fluorescent coloured powder which is injected into the collector from the dirty side. It accumulates around the leaking points. The inspection must be made with the aid of a suitable ultraviolet lamp.

KAYSER offers KAY-GLOW® in three different colours: red, yellow and green

CLEANING VALVES AND CONTROLLERS



KAYSER supplies a wide range of valves from 3/4" to 3" from the main original manufacturers.

Performance of cleaning valves is related to their design. Use of original manufacturer spare parts allow you to:

- Improve diaphragm life and fast opening and closing operation
- Reduced compressed air consumption

KAYSER also provides different accessories for the whole cleaning system:

- Header tanks
- Pilot boxes
- Electronic timers
- Sequential controller

CONSULTING



KAYSER would be pleased to advise you in all matters relating to the separation of particulate pollutants and products from gases and liquids with textile filter media. We are here to assist you from project planning, through the setting up of your new filter system to process optimisation in your existing plants. We look forward to co-operate with you to work out innovative solutions for your filtration tasks.

LABORATORY ANALYSIS FOR FILTER MEDIA AND DUST



- Microscopic image analyses:
 - light and scanning electron microscopy
- Textile physical testing:
 - permeability, thickness, tensile strength, tear strength and Mullen Burst strength
 - conductivity and shrinkage
- Filtration testing of filter media:
 - operating characteristics and emission behaviour in accordance with VDI 3926

INSTALLATIONS AND INSPECTIONS



- Dismounting and remounting of your filter elements
- Inspection of support cages
- Leakage test on filtration systems
- Mechanical inspection of baghouses
- Audits and recommendations for upgrade old equipments



A. KAYSER GmbH u. Co. KG · TEXTILE FILTERMEDIA
 Baustraße 38 · D-37574 Einbeck · Germany
 Phone: +49 5561 7902-2020 · Fax: +49 5561 7902-2870
 E-mail: info@kayser-textil.com · www.kayser-textil.com

A. KAYSER GmbH u. Co. KG · TEXTILE FILTERMEDIA
Sales Office Ahlen
 Bunsenstraße 19 · 59229 Ahlen · Germany
 Phone: +49 2382 7666-0 · Fax: +49 2382 7666-20

KAYSER TEXTILE FILTERMEDIA SPAIN
 Ctra. Rubi No 40-50 · Ed. Forum SCV 3^o 2^a
 08174 Sant Cugat del Valles · [Barcelona] SPAIN
 Phone: +34 93 5530850 · Fax: +34 93 5839978



AK FILTRATION SARL
 45 rue du Danemark · Z.I. Heiden Est · 68310 Wittelsheim · France
 Phone: +33 3 892864-40 · Fax : +33 3 892864-49
 E-mail: akfiltration@akfiltration.com · www.akfiltration.com



ECOTEX s.r.o.
 Dráby 785 · CZ-566 01 Vysoké Mýto · Czech Republic
 Phone: + 420 465 461611 · Fax: + 420 465 461630
 E-mail: sales@ecotex.eu · www.ecotex.eu



Filtrozella S.r.l. con unico socio
 Via Commenda, 4/B – 10072 Caselle Torinese · Italy
 Phone: +39 011 9273154 · Fax: +39 011 9273037
 E-mail: info@fitrozella.it · www.filtrozella.it



REMARK-KAYSER Sp. z o.o.
 Batorowo, Skosna 4, 62-080 Tarnowo Podgorne, Poland
 Phone: +48 61 654 3550 · Fax: + 48 61 6543566
 E-mail: office@remark-kayser.com.pl · www.remark-kayser.com.pl