

## Bekipor<sup>®</sup> metal fiber media



**Highly efficient high porous media shaped to fit your application**

A man wearing safety glasses is focused on his work in a factory. He is looking down at a piece of machinery, possibly a filter or a component of a machine. The background is slightly blurred, showing industrial equipment and a blue wall. The overall scene conveys a sense of precision and expertise in a manufacturing environment.

## Why choose Bekaert?

### **Our experience for your success**

Bekaert is the pioneer in designing, developing and producing metal nonwoven media on an industrial scale. Our experience of over 40 years has given us the flexibility and technical know-how to provide you with a solution that perfectly matches your quality and performance requirements.

### **Protecting your investment**

To deliver the best products to you, we have spent decades refining our total quality management system. Best practices across locations, divisions, continents and teams are continuously evaluated and measured again to ensure our quality. These efforts resulted in ISO9001 and ISO14001 certification for all our Bekipor® plants.

### **Customer-driven innovation**

If there's a way for us to bring you to the next level, we'll find it. Because your designs and needs fuel our drive for innovation. We pursue a close cooperation to develop media solutions that benefit you and your end-customers. We also maintain productive partnerships with key industry players and invest heavily in innovation.

Because of our capabilities and experience, we are the largest provider of standard and custom-made metal fiber media on the market today.



# The efficient, cost-effective and environmentally friendly media solution

Bekipor® is a family of metal fiber, nonwoven media which is produced to match your quality, productivity, handling and maintenance requirements. Consisting of very fine metal fibers of a consistent diameter, Bekipor® excels in strength while maintaining a very thin cross section.

Due to its unique structure, Bekipor® features a high porosity that is ideal for fine filtration applications and contributes to a more efficient use of energy, allowing you to save on operating costs and reducing the impact on the environment.

Bekipor® is highly adaptable to any application or requirement. To meet your needs, we are able to combine any number of the media's properties including: classic and special alloys, fiber diameters, web structures, unit weights, layer configurations, sintering degrees, sheets sizes and rolls, and more. For you, we can create infinite possibilities.

## Discover the unique benefits of Bekipor®

Thanks to its superior properties, Bekipor® media can enhance your process and product quality in more than one way:

### High flow rates

The multi-layer structure of Bekipor® media increases its dirt holding capacity while its uniform web structure and tortuous flow paths result in superior porosity. This allows flow rates up to 20 times higher than other media types, very low pressure drops even at high filtration velocities and a more efficient use of energy.

### Long on-stream life

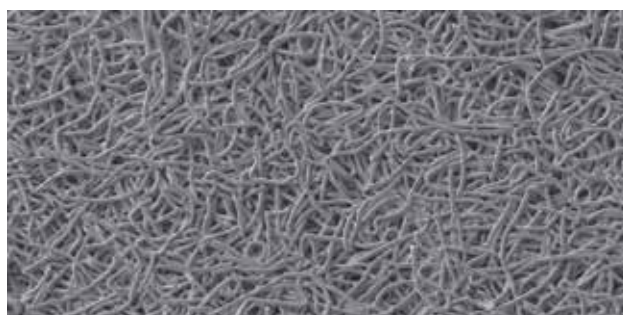
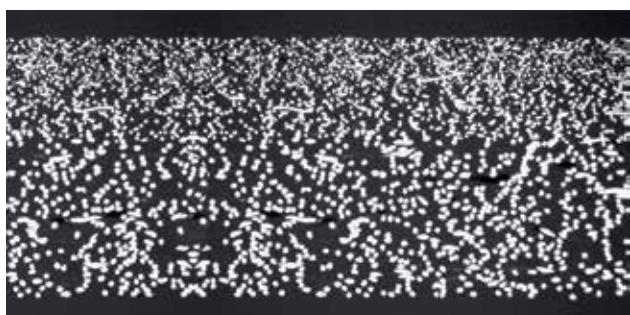
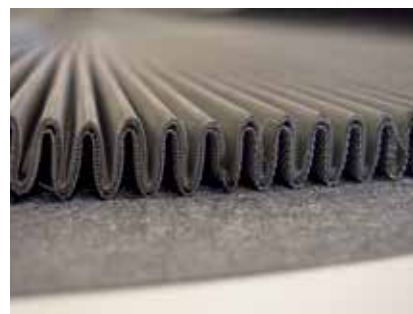
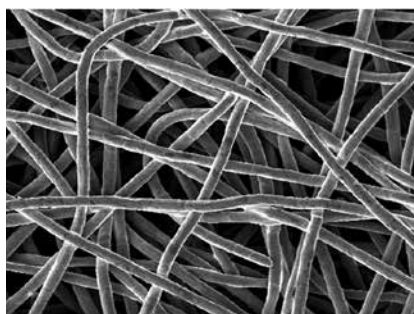
Bekipor® filter media is available in a wide range of alloys including stainless steel, nickel, Hastalloy, Inconel, Fecralloy, ... The properties of these alloys result in an excellent mechanical strength combined with a high corrosion and temperature resistance. This will increase the longevity and on-stream life span of your solution significantly and reduce the costs on your installation.

### Easy to clean

The open structure of porous metal fiber media allows you to clean in situ by backpulsing or backwashing. The high quality alloys can tolerate several cleaning cycles as well as chemical or thermal cleaning.

### Easy to shape

Thanks to the thin, customizable layer configuration and good pliability of the fiber media, Bekipor® is easy to shape and process to match your specific application.



# Proven strengths in a wide range of applications and environments

Here are some possible applications that could benefit from Bekipor® fiber media. This list is merely an indication of its limitless uses.

## 1. In polymer filtration

In polymer filtration, Bekipor® offers a high porosity, high strength medium with an increased dirt holding and gel retention capacity. Not only will it help you increase the on-stream lifetime of your application and reduce your energy costs, it is also easier to clean.

**Main application areas:** polyesters (PET), polyamide (PA), polyaramids (Kevlar®, ...), polypropylene (PP), polyethylene (PE), PEEK, polycarbonate (PC), viscose, polyacrylonitrile (PAN) and other polymers.

## 2. In liquid/solid filtration

Bekipor® metal media has superior corrosion resistance combined with a very low pressure drop, a high dirt holding capacity and can be cleaned online which is ideal for liquid filtration.

**Main application areas:** chemicals, hydraulic, lube and fuel filters, inkjet printers, pharmaceuticals, food and beverages, petro-chemical process and more.

## 3. In gas/solid filtration

Bekipor® media offers high temperature resistance, excellent corrosion and fine surface filtration abilities in self-cleanable solutions. These features create entire new process possibilities such as product recovery, catalyst /energy recovery or environment protection.

**Main application areas:** oil refinery, chemical processing (olefins gases, ammonia gases, EDC, polysilicon, ...), ore smelting (Al, Pt, Cu, Ni, ...), cement and steel manufacturing, coal gasification, nuclear filtration and many more.



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## 4. In coalescing and in demisting

Bekipor® is high performing media that enables a good droplet growth and drainage. It creates low pressure drops and has a long life span even under constant exposure to corrosion, chemicals and high temperatures. These features make Bekipor® an excellent choice for coalescing and demisting filters.

**Main application areas:** separation of oil from water, emulsion of chemicals, crankcase ventilation, just to name a few.

## 5. As burner medium

Thanks to its open structure and low thermal inertia, Bekipor® burner media enhances flame stabilization in gas pre-mix combustion applications.

**Main application areas:** household and industrial gas burners, vehicle interior heaters and other thermal applications.

## 6. In acoustics

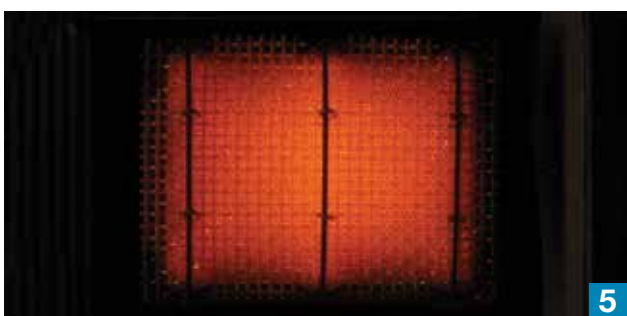
Thanks to its non-flammable and corrosion resistant nature, Bekipor® can be used to reduce noise in applications used in extreme conditions (e.g. in aviation, aerospace, engines, ...). Moreover it can be shaped and molded in any size to fit the work environment.

**Main application areas:** airplane APU, airplane airconditioning systems, engines close to the fuselage of the aircraft, or wherever soundproofing is required.

## 7. In DPF/GPF

The highly porous structure of fine metal fibers in Bekipor® media creates unlimited filter tunability (efficiency,  $\Delta P$ ) for diesel and gasoline particulate filters. Bekipor®'s natural sound attenuation makes it possible to combine DPF/GPF with silencer characteristics.

**Main application areas:** heavy duty, passenger car, NRMM (Non Road Mobile Machinery), marine and more.



## Our service has no borders

If you would like to find out what Bekipor® filter media can do for you, please contact one of our experts in your area.

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**<http://bekipor.bekaert.com>**

Bekaert is a world market and technology leader in steel wire transformation and coating technologies. To be the preferred supplier of steel wire products and solutions, we consistently deliver superior value to our customers worldwide. Bekaert (Euronext Brussels: BEKB) was established in 1880 and is a global company with approximately 30 000 employees worldwide.

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