

## 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.

## Bekipor® sandless spinpack media

### Compact design, longer on-stream life

#### What can we offer you?

Bekipor® sandless spinpack media is designed to replace metal sands or powders in spinpack applications. The medium consists out of sharp triangular metal fibers with a high surface to volume ratio. The compactness of the media ensures a **very short polymer residence** time within the spinpack.

Bekipor® particularly benefits filter applications that use gel-prone polymers, for instance in the production of filaments and films. The sharp-edged fibers **shear and break-up the polymer gels** before they enter the spinpack filter downstream. The sintered composition of this medium also **eliminates the risk of channeling, compaction and nozzle blockage** associated with the use of sand.

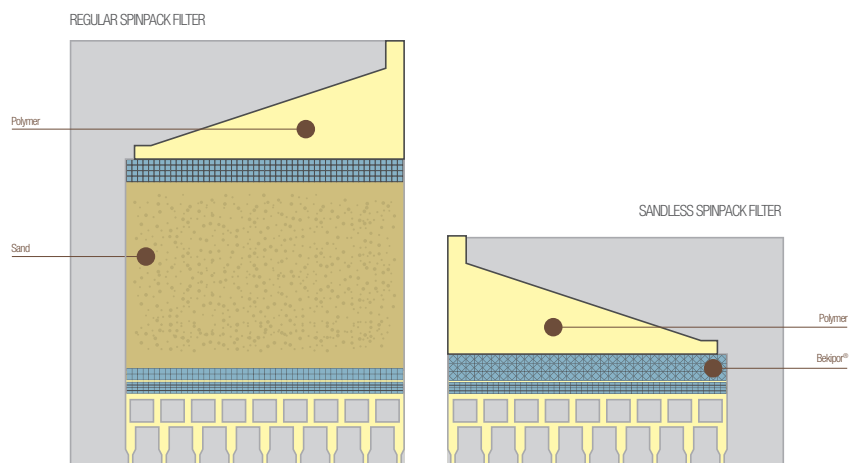
#### Benefits

- significantly increased on-stream filter life
- enables an easier, quicker and more cost-efficient assembly process
- reduces contamination that can lead to defects (i.e. fish-eyes in PVC films)
- enhanced gel shearing resulting in better fiber quality

### Media Comparison

The pressure and lifetime of sand filled and sandless spinpacks has been thoroughly tested on both Nylon and Polyester lines. Fiber quality in polyester and nylon lines was equal or better than sand.

	Sand spinpack	Sandless spinpack	Δ
<b>Polyester fibers</b>			
Initial pressure drop (kg/cm <sup>2</sup> )	106	93	88%
Pressure raise (kg/cm <sup>2</sup> /day)	3.83	2.78	73%
Life time (days)	30	46	153%
<b>Nylon fibers</b>			
Initial pressure drop (kg/cm <sup>2</sup> )	100	95	95%
Pressure raise (kg/cm <sup>2</sup> /day)	1.33	0.56	42%
Life time (days)	30	80	267%



Though more compact than sand, this medium can be still used in existing spinnerets if the excess volume is filled with a drilled metal block or plate.

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.

## Would you like to know more about Bekaert sintered stainless steel fiber medium?

Feel free to contact us.

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### **Product range**

The composition of the medium can be customized to your specific application:

- the fibers are produced to very tight tolerances with diameters ranging from 20 µm to 45 µm
- porosities up to 75 %
- standard alloys: 316L, Fecralloy, Alloy HR, Inconel, other alloys are available on request
- panels in standard dimensions of 750 mm x 1180 mm, other dimensions are available on request



Cross-section of Bekipor® ST sandless spinpack



Top view of Bekipor® ST sandless spinpack

### **A local service supported by global presence**

Benefit from our commitment to local service by relying on our worldwide network of sales offices, research centers and plants to meet your needs quickly and effectively.

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