

Bekinox[®] PES

Stainless steel fibers, blended with polyester fibers for anti-static textiles

Bekaert Bekinox[®] PES 12/50 has specially been developed to achieve static control in non-woven textiles. Bekinox[®] PES 12/50 is supplied in bulk or as chopped sliver and simplifies the blending of Bekinox[®] stainless steel fibers with textile fibers. This is an economical and highly efficient solution for a permanent static control of non-woven textiles.

Typical applications are needle-punched anti-static felts for dry air filtration and insoles.



Anti-static needlefelt for dust filtration



Dust filters with Bekaert fibers prevent explosions



Anti-static insoles

How can your company benefit from Bekaert anti-static textiles?

This datasheet gives an overview of how Bekaert stainless steel fibers can make your product anti-static. If you want to find out in detail how these high quality fibers, filaments and yarns can work for you too, we are happy to advise.

Being close to you is central to the Bekaert strategy. This means you can count on your local contacts who speak your language and are close to your business. Our sales and services teams are there for you in Belgium, Brazil, China, India, Japan, Korea and USA.

Do not hesitate to contact us:

stainlesssteeltexiles@bekaert.com - antistatic.bekaert.com

Product specification

Bekaert Bekinox[®] PES 12/50 is a blend of 50% weight polyester and 50% weight stainless steel fibers.

It can be supplied in bulk:

Polyester fiber:

- type: semi-dull
- dtex: 3.6
- average staple length: 90 mm

Stainless steel fibers:

- diameter: 12 µm
- dtex: 9.1
- average staple length: 90 mm

or **chopped sliver** (Bekaert Bekinox[®] PES 12/50 GL):

- chopping length: 60 mm
- sliver weight: 10 g/m

Bekinox[®] PES 12/50 GL has especially been designed to be used with automatic feeding machines.

Handling

Bekinox[®] PES 12/50 and Bekinox[®] PES 12/50 GL are mixed with the rest of the bulk before carding.

Quantities of Bekinox[®] PES 12/50 during non-woven production

For a needlefelt without conductive scrim, at least 4% of Bekinox[®] PES 12/50 has to be blended with the textile fibers (= 2% weight stainless steel fiber).

With conductive scrim (using Bekinox[®] yarns), however, less Bekinox[®] PES 12/50 is needed. The amount of Bekinox[®] PES 12/50 always depends on the resistivity requested by the end-user.

Make-up and packing

In plastic bales:

- weight: ±25 kg
- dimensions: 84 x 48 x 35 cm

Cost effective

- Easy to process
- Preblended
- Minimal percentage required

Best performance

- Long lifetime
- Up to very low resistances with minimal percentage of fibers
- Humidity independent

Quality control and testing

Offering you our core competence in metal transformation, Bekaert controls the quality of its products from the wire rod to the innovative textile.

This total quality control allows us to provide you with outstanding quality products, thus contributing to the continuous quality improvement of your products as well.

On your demand, you can submit your samples for testing and evaluation in our laboratories.

Bekaert has the means to test the electrostatic properties or electrical conductivity of all products containing Bekaert Bekinox[®].

Our technical staff will help you to finally determine the specific requirements for your products.

All customers' remarks and suggestions are welcome to improve permanently the quality of our products.

