



Sefar Acoustic

Perfect Sound & Ultimate Protection



www.marianinc.com
1-800-773-0062

Filter Components

S E F A R
■ ■ ■ ■

Peripheral Devices

Headphones

Integrated Systems

Hearing Aids



Perfect Sound & Ultimate Protection

In today's demanding acoustics industry it is critical to have innovative, precise filter media. Sefar's fabrics exhibit precise mesh openings, strictly controlled fabric properties and provide protection from dust and liquids without sacrificing sound clarity.

Mobile Phones

Smartwatches

Tablets

Smart Phones



We Focus on your Application

Sefar understands the high technical requirements of the fast moving acoustics industry. Therefore, we utilize the latest production equipment to produce a highly specialized acoustic product range. Our customers have come to trust and rely on our product consistency and superior quality.



Your Development Partner

Sefar's team of engineers is available to help with any application challenge.

- We offer application knowledge to assist customers in finding the right solution
- We established a fast and efficient sampling and prototyping process
- We have worldwide fabrication facilities



In-line testing of air permeability

Sefar Quality Control

Fully traceable and strictly controlled ensures lot to lot accuracy.

- Sefar's quality control is process orientated throughout the entire manufacturing
- The specific product characters, such as mesh size, mesh count, open area, thickness, color, air permeability and contact angle are monitored using modern optical and pressure sensitive equipment
- Unmatched quality standards give our customers the confidence to specify Sefar fabrics for the most demanding acoustic applications

Mobile Communication



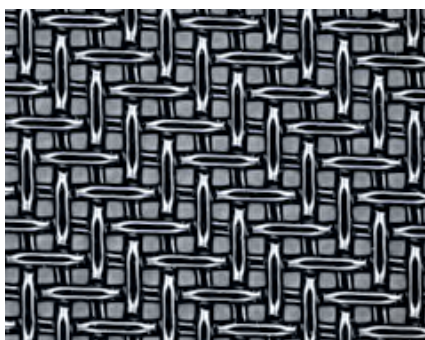
Mobile Phones
Smartphones
Smartwatches
Tablets
Wearables

Perfect communication

The acoustic performance of speakers and microphones is significantly enhanced by a filter made of a precision fabric. The selection of the optimal acoustic filter depends on the technical requirements of the mobile phone or smart wearable, as well as the design of the housing.

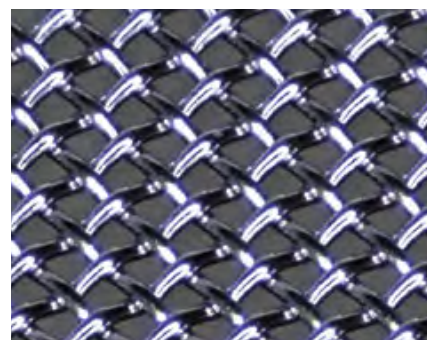
Dust and debris screen

Loudspeakers attract metallic particles, dust, debris and therefore easily become clogged. A woven fabric screen affords reliable protection and significantly increases the lifetime.



SEFAR® ACOUSTIC HF

Depending on the yarn, mesh opening, open area and fabric thickness the SEFAR® ACOUSTIC HF covers a very wide acoustic impedance range. Mechanical and acoustical requirements are taken care of by precise and small mesh openings combined with hydrophobic coatings to protect the electronics.



SEFAR® METALEN

Conductive fabrics are widely used to prevent malfunctioning of electronic devices and to protect people from electromagnetic waves. Sefar's metallized fabrics are supplied with a metallic aluminum coating to improve its charge dissipation and shielding properties. Furthermore, they are an attractive design element.

All SEFAR® ACOUSTIC HF and SEFAR® METALEN fabrics comply with the requirements of EU Directive 2015/863, RoHS and REACH.

Sefar Acoustic Peripheral Audio Devices



Headphones
Headsets
Hearing Aids
Microphones
Integrated Systems



Perfect sound

Choosing a fabric with the appropriate acoustic impedance will effectively filter out unwanted noise and guarantee unimpeded communication. Sefar filters significantly improve the acoustic quality of audio devices. Our highly precise woven fabrics guarantee consistent and predictable acoustic performance.



Acoustic performance

Acoustics demands precision. The sound transmission and dampening need to be linear and independent of the sound frequency. Therefore, Sefar's high precision acoustic fabrics are woven to the strictest tolerances possible and are tested using the latest test equipment. The polymers used assure consistent performance over a wide range of conditions.

Easy to handle

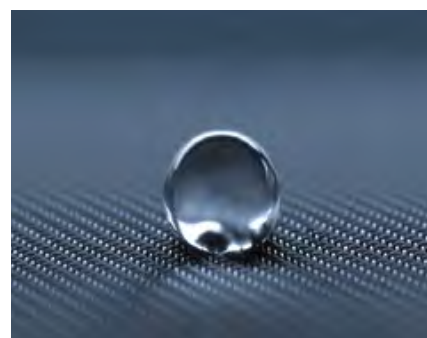
Sefar filters made of woven fabrics combine thinness and flexibility with dimensional stability and strength. This makes them easy to handle in any manufacturing process.

We offer

- Sefar monofilament fabrics based on PET and PA
- Precise and uniform mesh openings
- Exceptional lot-to-lot consistency
- Defined surface characteristics
- Special hydrophobic treatment
- Various fabrication solutions



Sefar Finishing Treatments Colors & Coatings



Design

Acoustic filters are often a visible element of the housing and are therefore also part of the overall design.

Sefar offers acoustic filter fabrics not just in black and white but also in customized colors or with glossy effects. Only special dyes with a very high light fastness are used to ensure uniform appearance over the lifetime of the product.

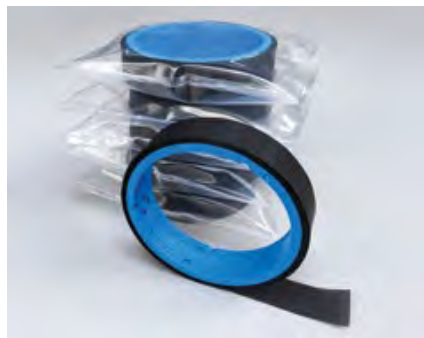
Sefar's aluminum coated fabrics convince with an interesting and special metallic optical appearance.

Water repellency

Sensitive electronic components in the speaker and microphone need to be carefully protected from water intrusion.

Sefar provides the ultimate protection with state of the art surface treatments that does not impair the sound transmission and acoustic impedance. SEFAR® ACOUSTIC meshes are highly hydrophobic and very resistant to any moisture uptake.

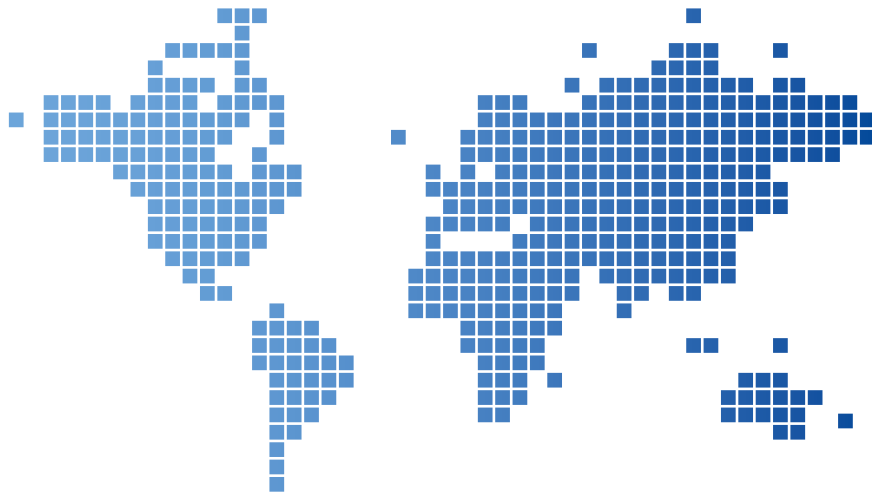
Sefar Prefabrication Ribbons



Ribbons

In addition to the wide range of acoustically effective filter media Sefar offers the possibility to cut fabrics into ribbons. The meshes can be heat or ultrasonically slit. Both slitting techniques ensure an optimally sealed, non-fraying edge quality.





Sefar Worldwide

Sefar is the leading manufacturer of precision fabrics from monofilaments for the screen printing and filtration market. Sefar products are used in a wide variety of industries, reaching from electronics, graphics, medical, automotive, food and pharmaceutical applications to aerospace, mining & refining and architecture. With its profound understanding of the applications, Sefar helps its customers to achieve optimum results in their industrial processes. With subsidiaries and representatives around the world, Sefar offers its customers the comprehensive, global support they need.

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