Membrane Switches and Dials

Screen printing mesh for the electronic industry

swiss
mesh
technology

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SEFAR

Exactly what counts: Sefar

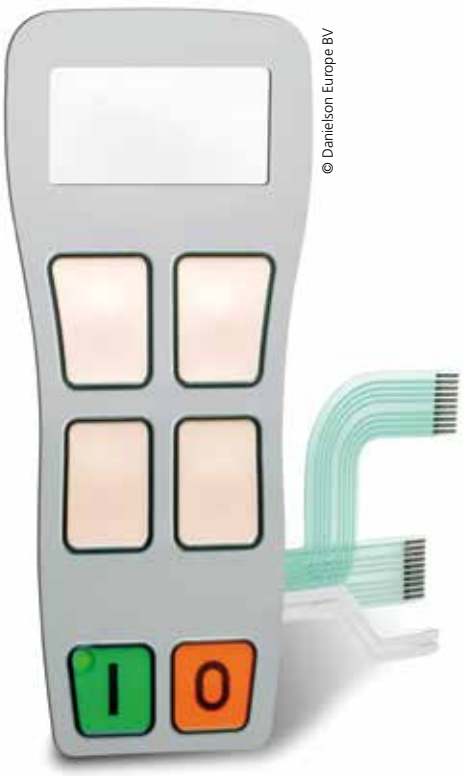
When you choose Sefar, your innovative specialist in screen printing meshes, you choose efficiency, quality and value-for-money, ensured by expert service and customer dedication.

Sefar offers you solutions to the unique challenges of your screen printing industry and projects.

We follow the needs of our customers in:

- Ceramics
- Electronics
- Glass
- Graphics
- Plastics and packaging
- Solar
- Textiles

We develop solutions for screen printing:
Sefar. Intelligent mesh solutions.



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- Membrane switches
- Keypads
- Dials

Performance, innovation, reliability: Printing in the electronic industry

For people often amazing, for professionals a matter of course: Industrial screen printing. But the requirements are extremely high. Nothing succeeds without standardized production processes, precisely defined printing parameters, controlled process steps and – absolutely essential – most stringent reproducibility. Only when all these factors are optimized, it is possible to achieve exactly what your customers require in today's market: Competitive prices and quality. Sefar's specially developed mesh range has been at the forefront in your industry and the world for many years. The key words? Low elongation, accurate, efficient, fast.

You always expect the best from Sefar.

Our offer. Your benefit:

- Technology and quality of the world's leading manufacturer
- Wide product range for all requirements from stock
- Innovative products providing maximum efficiency
- Individual support for your printing projects
- Lean, efficient production, in both stencil preparation and the printing process
- Sustainability, safety and reliability of supply to the finished printed product
- Local, world-wide cooperative partnerships with Sefar's support teams
- Increase the competitiveness of your business

Constantly under pressure:
Membrane switches and keypads

- Functional layers
- Conductor paths
- Adhesive printing
- Communication interface

Efficient reproduction of functional layers and elements printed with SEFAR® PME 71/180-48Y

Ultrafine conductor paths in smallest tolerances printed with SEFAR® PME 130/330-30Y

Visually appealing interfaces clearly and precisely printed with SEFAR® PME 150/380-30Y

Essential for mounting: Precise and defined adhesive application printed with SEFAR® PET 1500 43/110-80Y

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Keypads are in constant use every day, must withstand a lot of physical punishment and still look good and perform well. In addition, inscriptions such as signs, labels and numbers must remain clearly visible for years. For both graphical and functional elements: By using Sefar screen printing mesh you can produce membrane switches and keypads with the highest, consistent quality. Recommended: SEFAR® PME and SEFAR® PET 1500.

Form follows function:
Dials

- Solid color
- Translucent ink
- Metallic and fluorescent
- Adhesive
- Varnish

As motorists, our eyes are mainly focused on the road but we must also be constantly aware of our speed, and thus we also look often at our tachometer. SEFAR® PME and SEFAR® PET 1500 screen printing mesh properties allow the precise and efficient production of easy-to-read tachometer dials so that we are able to keep our eyes on the road but easily and continuously be aware of our speed and remain accident free.

Ink layers produced predictable and repeatable provide highest opacity printed with
SEFAR® PME 120/305-35Y

Whether translucent, opaque, metallic or glossy: Homogeneous and error free ink deposit with
SEFAR® PME 110/280-35Y

Razor sharp and defined halftone gradiations and solid colors precisely printed with
SEFAR® PME 150/380-30Y

Dimensionally accurate reproduction of your dials with lowest image distortion – in any operation step –
SEFAR® PME

SEFAR® **PME** – The best performing screen printing mesh

SEFAR® PME is the best performing range of screen printing mesh for printers who need to expand the capabilities of their screen printing process. The mesh is made from an innovative, high modulus, high tensile strength yarn developed and manufactured by Sefar. This screen printing mesh solution offers stencil makers and printers maximum precision in extremely tight tolerances. SEFAR® PME enables the efficient and reliable production of stencils that allow for printing of the most demanding, high volume products – meeting the highest quality demands.

Mesh features	Screen / stencil maker benefit	Printer benefit
High modulus polyester yarn with increased tensile strength	▪ Higher peak tension achievable ▪ Risk reduction of mesh tearing	▪ Improved dimensional accuracy ▪ Risk reduction of stencils tearing on press
Balanced and low mesh elongation	▪ Rapid achievement of stable tension ▪ Stable mesh geometry during stretching ▪ Standardized stretching process	▪ Lowest image distortion ▪ Dimensionally stable artwork reproduction ▪ Risk reduction of moiré
Minimal loss of tension	▪ Reduced relaxation time ▪ Increased productivity	▪ Increased printing speed ▪ Screen reutilization increases
Adhesion optimized surface treatment	▪ Homogeneous emulsion application ▪ Easy, safe capillary film transfer ▪ High resolution with finest detail adhesion	▪ Outstanding stencil adhesion expands printable range of fine details ▪ Increased stencil life time
Resolution optimized mesh color	▪ Accurate transfer of the printing motif ▪ UV spectrum matched absorption range	▪ Accurate image transfer during printing ▪ Faithful and less-loss image reproduction
Uncompromised paste and ink release	▪ Adhesive passes easily through the mesh ▪ Homogenous adhesive application	▪ Maintanance of narrowest ink deposit tolerances
Good antistatic properties	▪ Reduced susceptibility of dust ▪ Reduction of retouching	▪ Reduced risk of pinholes ▪ Error-free printing
Knot and fault indication	▪ Optimization of mesh utilization ▪ Cost reduction	▪ Reduced downtime of the printing press ▪ Waste and cost reduction

SEFAR® **PET 1500** – The screen printing mesh professionals use

SEFAR® PET 1500 is the best stencil carrier for an almost infinite number of screen printing applications – the most wanted for decoration of any printable substrate. SEFAR® PET 1500 is available in the largest range of different screen printing mesh types.

Mesh features	Screen / stencil maker benefit	Printer benefit
Unsurpassed UV-light undercutting protection of yellow mesh	▪ Sharp-edged stencil ▪ Finest detail reproduction	▪ High reproducibility ▪ Best edge definition
Adhesion and preparation optimized mesh surface	▪ Homogeneous coating ▪ Easy capillary film application	▪ Extended screen life ▪ High quality image reproduction
Reproducible mesh relaxation	▪ The tension drop is stable and low ▪ Process and product reliability	▪ Better color to color reproduction ▪ Good reproducibility of fine details
Good ink and paste release behaviour	▪ Adhesive passes good through the mesh, therefore less problem in bonding the mesh to the frame	▪ Uniform ink application ▪ Maintaining of tightest color shade tolerances
Good antistatic behavior thanks to Sefar antistatic treatment	▪ Reduced susceptibility of dust ▪ Reduction of retouching time	▪ Error-free and clean printing ▪ Reduction of waste in the print process
Wide standard range with high availability	▪ Optimizing of storage management ▪ Short delivery time ▪ High reliability ensures continuous production	▪ Ensured continual delivery of stencils ▪ Unlimited options of ink/paste film thickness

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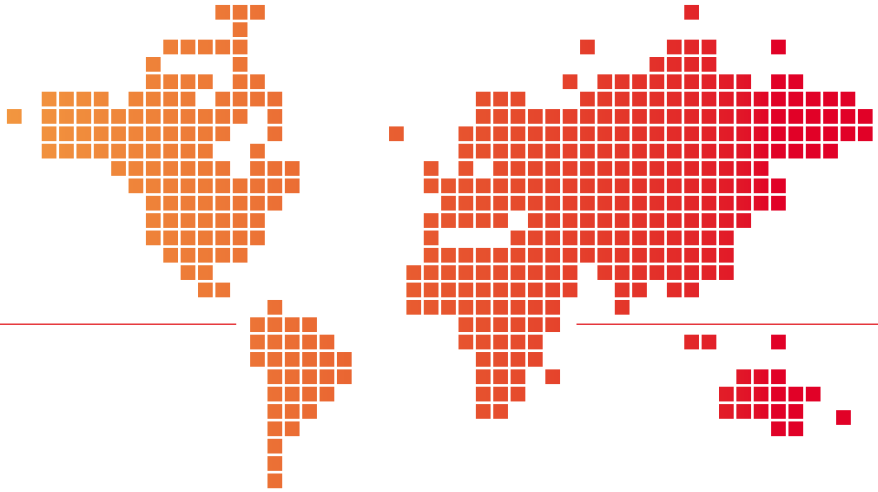

Sefar worldwide

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. Subsidiaries and fabrications centers around the world provide local technical service for the broad range of solutions offered by Sefar.

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Your Sefar trading partner:

Our most current general sales conditions shall apply.
Please consult the most current local product data sheet prior to any use.

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