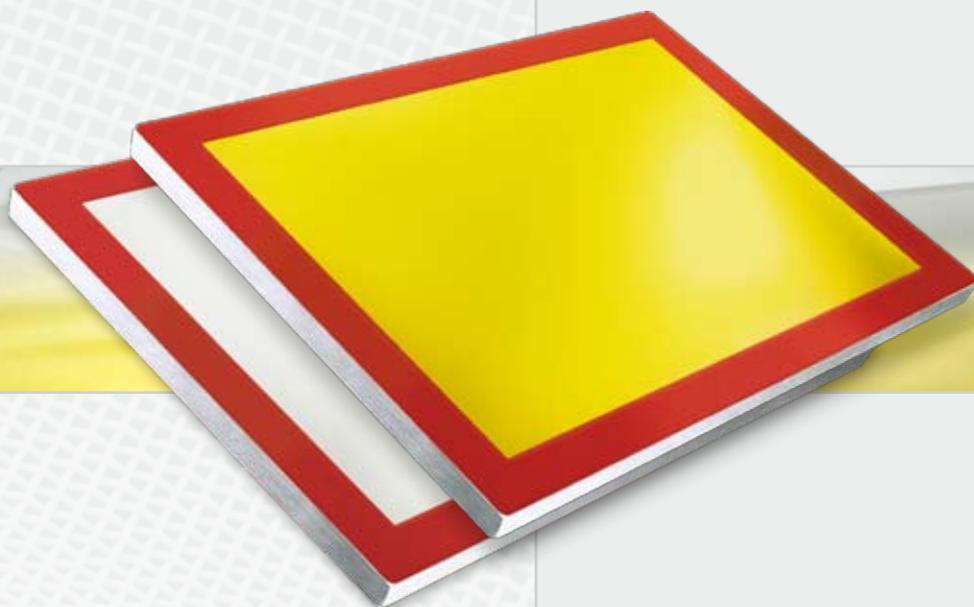


swiss  
mesh  
technology

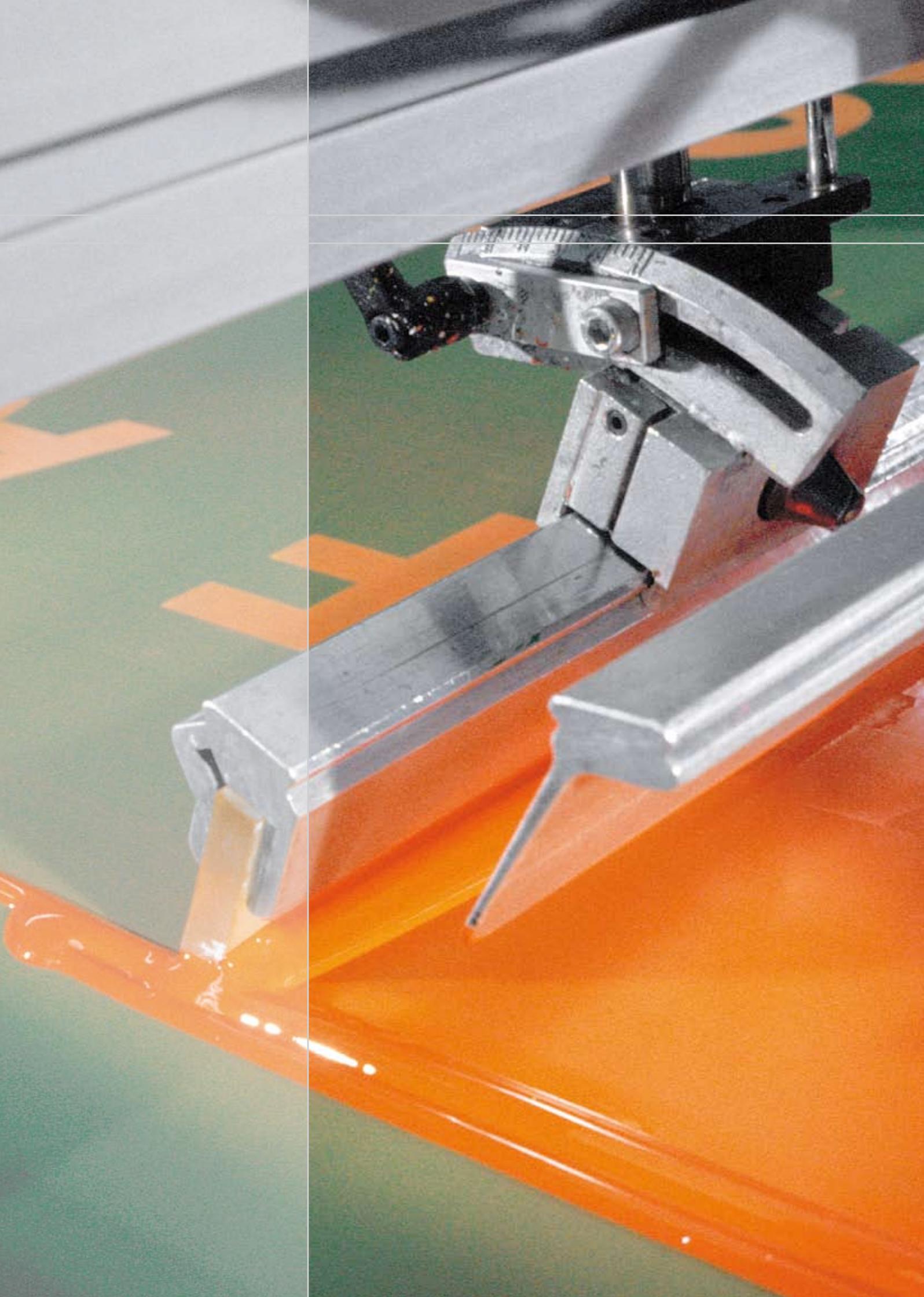


High-quality printing  
results for professional  
demands



Printing Solutions  
SEFAR® **PET 1500**

**S E F A R**  
■ ■ ■ ■



## SEFAR® PET 1500

# Economical and high-quality printing results for professional demands

## SEFAR® PET 1500

SEFAR® PET 1500 is the popular allround stencil substrate for virtually all screen printing applications – large and small-format graphics, CDs, decorative tile designs, printed glass, sporting goods, textile printing, and other industrial tasks.

This high-modulus mesh, woven from monofilament polyester, features outstanding mechanical robustness and chemical resistance.

Excellent tear resistance permits high fabric tensions to be achieved with virtually any commercially available stretching system. The stretching behavior is exceptionally well balanced in both directions, while very good dimensional stability guarantees highly reproducible tension.

End-to-end process and quality control under closely defined technical conditions and tolerances make SEFAR® PET 1500 an utterly reliable substrate material – and that is the best possible guarantee for smooth production.

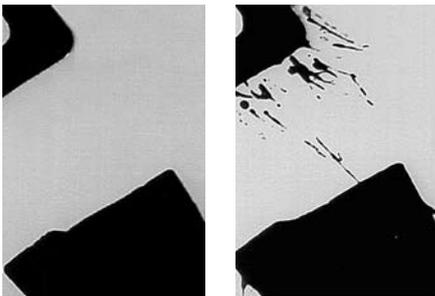
SEFAR® PET 1500

Manufactured to Sefar proprietary standards

## Good anti-static properties

Thanks to a special anti-static treatment, SEFAR® PET 1500 has a very low static build-up. That makes for extremely simple and pleasant handling during the stretching process: insertion and gluing are smooth and time-efficient.

Because the printing substrate remains largely free of static charge caused by the mesh, printing results are clean and reject rates low – a convincing benefit, especially where high-cost materials are involved.



*Conductive carbon ink, printed with and without anti-static treated mesh*

## Reproducible relaxation

SEFAR® PET 1500 has lasting qualities. The tension loss between stretching and printing is low, and remains stable over subsequent print runs. Of course, a stable mesh also results in higher registration accuracy.

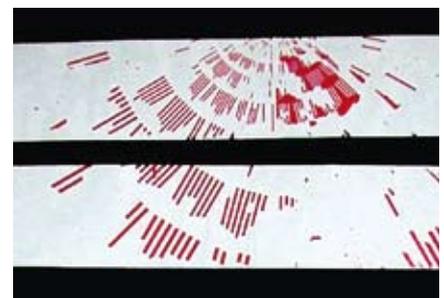
## Stencil material adheres better

Thanks to the polyester fabric's excellent wettability, the water film persists longer and the emulsion, distributes itself more evenly over the mesh. This improves process reliability in conjunction with indirect films, capillary films, emulsions or combined applications.

Improved adhesion firmly retains screen dots and fine lines, considerably prolonging stencil life. The mesh retains this excellent adhesion characteristics even after multiple use.



*Tape test with SEFAR® PET 1500:  
The absence of stencil residue on the adhesive strips is proof of SEFAR® PET 1500's excellent adhesion characteristics*



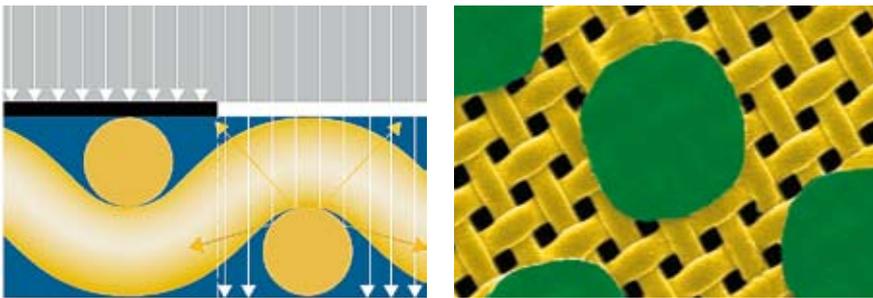
*Tape test with untreated high-modulus mesh*

## Unbeatable undercutting protection

Most of the range is available in both white and yellow – the latter being indispensable for demanding print jobs or high-resolution detail.

Manufactured to Sefar proprietary standards, yellow fabric with its light under-cutting protection ensures sharp, sawtooth-free reproduction. Extended exposure latitude compensates minor deviations in exposure time, illumination intensity and distance.

The welcome result: highly reproducible stencils, even with fine rasters and halftone gradations, plus considerably sharper edges.



*Yellow dyed mesh: Only the ineffectual (yellow) rays are reflected, so the lightsensitive coating underneath the edge zone is not hardened.*

*The result: sharp, sawtooth-free reproduction.*



SEFAR® **PET 1500**

## Process reliability thanks to end-to-end quality control

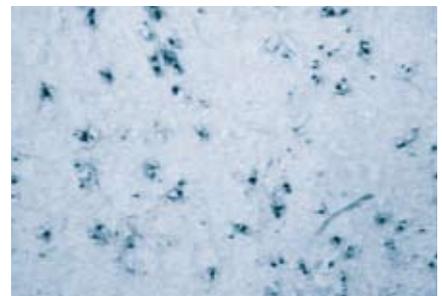
### High-quality printing results

Excellent ink release results in greater ink layer uniformity, for a better result.

Coupled with enhanced ink flow, it is possible to maintain closer tolerances in the critical area of light transmission, even over long print runs.



*Ink deposit with SEFAR® PET 1500:  
The picture shows the more uniform  
ink deposit with SEFAR® PET 1500*



*Ink deposit with untreated high-modulus mesh*

### Economy

Working with minimal squeegee pressure and a small snap-off distance benefits the quality of the print and of the stencil service life. Improved wettability and more uniform emulsion distribution increases stencil life and hence productivity. The mesh stays cleaner – it all adds up to longer mesh life.



*SEFAR® PET 1500 – uniform wetting:  
A test with dyed water clearly reveals  
the difference in wetting characteristics*



*Untreated high-modulus mesh:  
nonuniform wetting*

## Excellent price/performance ratio

Stema Specialtryck AB, Borås, comment about SEFAR® PET 1500:

«Greater stencil quality and improved ink flow has helped us to achieve considerable improvements to the standard of our output. Ink deposits stay more consistent through print runs. Area prints and halftones appear smoother. This product makes tricky printing jobs easier to handle, something we really appreciate.

We have also seen how much simpler and more dependable our work has become in critical applications like back-lit and smooth, highly-saturated colored surfaces. Printed areas are also less susceptible to artefacts, including ghost images.»



### SEFAR® PET 1500 – the benefits

- Good anti-static properties
- Minimal, stable relaxation
- Stencil material adheres better
- Excellent protection against light under-cutting (yellow fabric)
- Improved ink flow and higher-quality printing results
- Longer stencil life
- Process reliability thanks to end-to-end quality control
- Economical thanks to optimized fabric widths, suitability for virtually all application areas, optimized ink consumption and high stretching process reliability



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1131 EN 12/2008

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