

# Autotype<sup>®</sup> Screen-Printing Films

Engineered for Excellence



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MacDermid Alpha proudly manufactures high-performance screen films that deliver premium-quality stencils for a wide range of applications. From the world-renowned Five Star—leading the market in 'Indirect' stencil systems—to the versatile Capillex range of 'Direct' films, we offer tailored solutions for every screen-printing need.

These films combine fine resolution with low Rz values to ensure exceptional print reproduction.

We're excited to present the Autotype photo stencil films—engineered to elevate your screen-printing results.

## Key Applications

- PCBs
- Ceramics
- Automotive
- Printed Electronics
- High quality graphics
- Membrane Touch Switches (MTS)

## Indirect Photo Stencil Films

*Achieve Ultra-Fine Detail with Five Star*

Choose Five Star indirect film for ultra-high-quality, short-run printing with solvent-based or UV-curable inks.

- Reclaim mesh quickly and easily after use
- Achieve high levels of acuity – Resolve fine lines with sharp edges
- Enjoy a wide processing latitude – use the product with exceptional ease
- Speed up production whilst controlling stencil thickness and ink deposition

## Capillary Photo Stencil Films

*Deliver Consistent Quality Across Every Print Run*

Achieve consistency and reliability in your manufacturing process with Capillex direct films.



Companies worldwide rely on these tough, dependable stencils to deliver excellent print quality across diverse applications.

The standard Capillex range includes six precision-coated films for mesh counts from 34 to 150 threads/cm. Known globally, Capillex films combine premium quality with unmatched dependability.

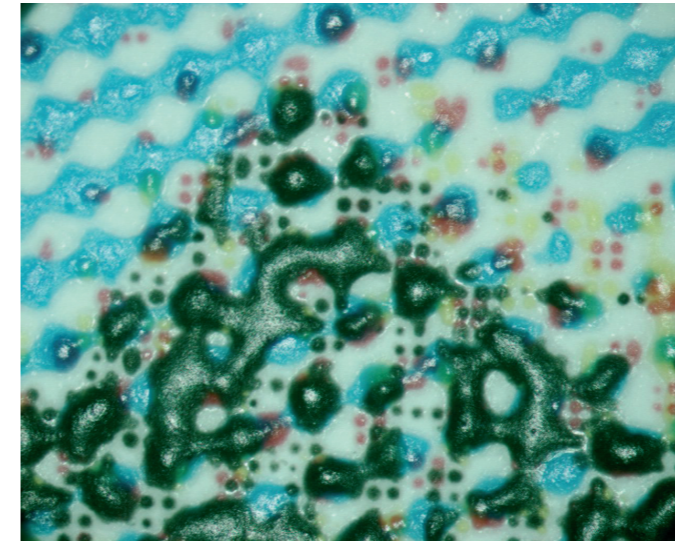
## Thin Film Solutions for Fine Detail Capillex 18, 20 and 25 – Designed for Precision on Fine Meshes

Used on finer mesh counts for fine line and halftone printing.

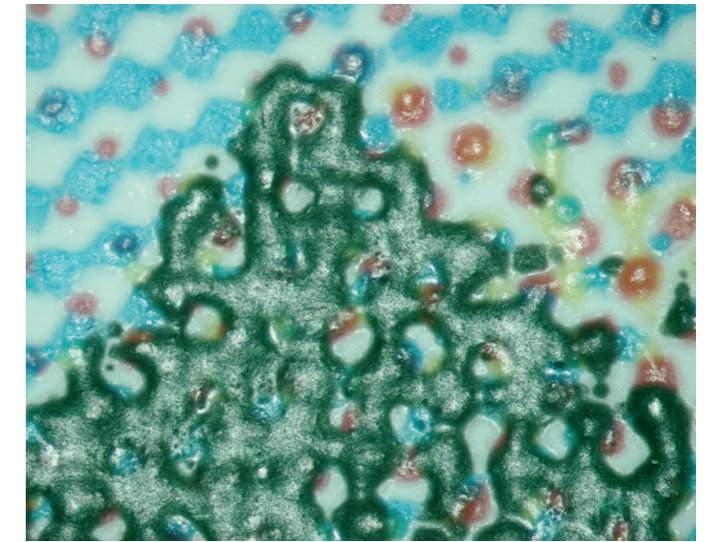
- Capillex 18 – Ideal for halftone printing
- Capillex 20 and 25 – Perfect for fine line printing on fine to medium mesh counts

## Thick Films for Industrial Strength Printing Capillex 35, 50 and 80 – Built for High Ink Deposit and Durability

Apply these films to medium or coarse mesh counts for industrial applications needing high ink deposits, whilst maintaining sharp edge definition.



Excellent dot reproduction from the low EOM of Capillex CP



## Optimized for Solvent-Based and UV-Curable Inks

Capillex film developed for optimal compatibility with a wide range of solvent-based and UV-curable inks, supporting diverse screen-printing needs.

## Controlled Profile Technology

*Print Sharper, Cleaner, and more Efficiently with Capillex CP and CX Films*

Autotype's controlled profile stencil technology delivers a low EOM and Rz with outstanding durability. Thin, flat stencils simplify high-quality image printing. Key benefits include:

- Extend stencil life – reduce wash-ups and stencil wear
- Boost productivity – achieve first-time quality on press
- Cut down time – improve ink flow and reduce cleaning
- Lower printed ink dot height – minimize dot-on-dot skipping
- Enhance process capability – support demanding applications
- Reduce image distortion through the application of less squeegee pressure

## Capillex CP for Halftone Images

*Achieve Flawless Dot Reproduction with Ultra-Low Profile Stencils*

Capillex CP features an ultra-low profile that reduces ink build-up without sacrificing print quality. Its micro-matted surface forms a strong gasket with the substrate, ensuring excellent dot reproduction and clean release.

Use Capillex CP on fine mesh counts for effective UV halftone printing on high-precision applications such as CD and ceramic decal printing.

## Capillex CX for Line Images *Engineered for Precision in Conductive and Resistive Ink Printing*

Use Capillex CX for demanding industrial applications like conductive or resistive ink printing. It maintains a consistent, low-profile stencil across coarse / medium range mesh counts with an optimized profile and Rz ensure superb print reproduction – essential for conductive inks.

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High quality screen printing stencil films available from MacDermid Alpha

	Mesh Count / cm										
	34	43	62	77	90	100	120	140	150	165	180
<b>Indirect Films</b>											
<b>Five Star</b>											
<b>Direct Films - Standard Range</b>											
<b>Capillex 18</b>											
<b>Capillex 20</b>											
<b>Capillex 25</b>											
<b>Capillex 35</b>											
<b>Capillex 50</b>											
<b>Capillex 80</b>											
<b>Direct Films - Controlled Profile Range</b>											
<b>Capillex CX</b>											
<b>Capillex CP</b>											

*"Trusted worldwide since 1868, the Autotype® portfolio continues to drive innovation in premium screen printing solutions and hardcoated films, delivering industry-standard technologies that elevate the performance of our XtraForm®, Autotex®, and Autoflex® smart surface films."*



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