

:Thermostar P970

Advanced Thermal Plate Technology

Thermostar plates offer high quality thermal imaging and give your pressroom the steady stream of high quality.....



Advanced thermal plate technology

:Thermostar substrate is electrochemically grained and anodized aluminium manufactured to exacting tolerances and known for its excellent lithographic performance.

The lower coating layer is a hydrophobic polymer that provides the basis for :Thermostar's lithographic behaviour, press durability, and the ability to be developed using a standard aqueous alkaline developer.

:Thermostar P970 is a positive-working, 830 nm sensitive plate, compatible with all 830nm plate-setters. The plate is designed for commercial printing applications of medium run lengths, and can achieve up to 100,000 impressions without baking. Optional post-baking after processing enables press runs of more than one million impressions.

:Thermostar P970

Thermal-sensitive layer

The upper layer is highly sensitive to infrared light, giving extremely fast imaging speeds. During exposure, the thermal laser causes a heat-induced transformation to take place in the top layer. During development, the alkaline developers penetrate only the exposed areas. The result is a sharp definition between exposed and unexposed areas, creating high-resolution plates capable of 1% to 99% at 200 lpi. This makes :Thermostar appropriate for a wide range of high-quality applications - including stochastic and hybrid screening.

Plate Specifications

Plate type	Thermally exposed aluminium laser plate for sheet and web offset
Coating	Two-layer system, infrared sensitive, positive acting
Gauges	0.15 mm, 0.20 mm, 0.24 mm, 0.30 mm, 0.40 mm 0.006", 0.008", 0.010", 0.012", 0.016"
Sizes	1500 x 2000 mm in 0.40 mm 1483 x 2000 mm in 0.30 mm
Spectral sensitivity	830 nm
Resolution	1-99% dot rendering at 200 lpi
Image colour	Blue-green
Processing	Conventional wet processing using standard positive-type developer
Processor Speed	0.7 - 1.2 m per minute
Temperature	25 ± 3°C (77 ± 5°F)
Replenishment rate	100 ml/m ² , depending on use
Run length*	100,000 without post-baking, 1 million+ with baking
Lighting conditions	Daylight
Storage conditions	:Thermostar plates should be stored in the original container under ambient conditions of less than 30°C (86°F) and 30 -7 0% relative humidity

*Depending on press conditions and image content

Agfa Graphics' Optimised Pressroom Chemicals

Plate Cleaner	:Antura CtP Plate Cleaner
Washout Gum	:Antura CleanGum
Deletion pen or gel	KP23 - KP010 - KP011 or KP012
Normal short term storage (max 7 days)	RC795
Baking gum	RC510
Desensitizer	PlateEtch Plus
Scratch Remover	Reviva Plate
Fountain Solutions	:Thermostar is compatible with all AGFA fountain solutions
Roller and blanket washes	:Thermostar is compatible with all AGFA roller and blanket washes

A chemical passport indicating the most appropriate chemistry is available for all AGFA plates. Contact your local Agfa representative for more information.