



# THERMOSTAR P970

## Highly durable printing plate for maximum productivity

Thermostar P970 is a positive-working printing plate, compatible with all 830 nm platesetters. It offers high-quality thermal imaging and is designed for harsh printing conditions, achieving run lengths of more than 1 million impressions after baking. It is part of ECO3's fully integrated prepress solutions that come complete with CtP, processor, screening technologies and workflow software.

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PRINT.  
WE  
CARE.

## Advanced thermal plate technology

Thermostar's substrate consists of electrochemically grained and anodized aluminum, which is manufactured to exacting tolerances and known for its excellent lithographic performance. The coating layer is a polymer that provides the basis for Thermostar's excellent lithographic behavior and press durability, and its ability to be developed using a standard alkaline developer. This means you could easily use Thermostar P970 in combination with e.g. our Energy Elite Pro printing plates.

The polymer coating of the Thermostar P970 is highly sensitive to infrared light, resulting in extremely fast imaging speeds. During exposure, the thermal laser causes a heat-induced transformation to take place in the layer. During development, the alkaline developer penetrates only the exposed areas. The result is a sharp definition between exposed and unexposed areas, creating high-resolution plates capable of 1% to 99% up to 340 lpi with AM screening. This makes Thermostar P970 appropriate for a wide range of high-quality applications.

PLATE CHARACTERISTICS	
Plate type	Positive-working, digital thermal offset plate
Substrate	High-quality grained and anodized aluminum
Spectral sensitivity	830 nm (thermal laser diode)
Practical sensitivity	140 mJ/cm <sup>2</sup>
Platesetter compatibility	Compatible with 830 nm platesetters
Plate sizes	Length: 450-3147 mm
Image contrast	Excellent, can be measured with all available densitometers and plate readers
Resolution	ABS: 1-99% at 200 lpi at 2400 dpi Sublima: 1-99% at 340 lpi at 2400 dpi FM 20 µm
Width	480-1590 mm
Gauges	0.15 mm, 0.20 mm, 0.24 mm, 0.30 mm and 0.40 mm (0.006", 0.008", 0.010", 0.012" and 0.015")
Run length (baked)	Up to 1,500,000 (UV inks: up to 450,000)
PROCESSING (CONVENTIONAL POSITIVE THERMAL PLATE PROCESSOR)	
Developer	THD100 developer (also as replenisher)
Rinse water	Standard
Gum	RC795, RC795A, Unifin, ANTURA MAM1
Bath life	5,000 m <sup>2</sup>
Replenishment	110 ml/m <sup>2</sup>
ENVIRONMENT	
Light conditions	Daylight
Room conditions (T, RH)	18-24 °C (64-75 °F), < 70% RH
Storage conditions	Below 32 °C (90 °F), <70% RH
ECO3 OPTIMIZED PRESSROOM SUPPLIES	
Plate cleaner	ANTURA CtP Plate Cleaner
Fountain solution	Compatible with all ECO3 fountain solutions
Roller and blanket wash	Compatible with all ECO3 roller & blanket washes
Wash-out gum	ANTURA CleanGum