

# **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.

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 aqueous alkaline developer. This means you could easily use Thermostar P970 in combination with e.g. our Energy Elite Pro printing plates.





## Advanced thermal plate technology

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.

### **Technical specifications - Thermostar P970**

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	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	
	Image contrast	Excellent, can be measured with all available densitometers and plate readers	
	Plate sizes	Length: 450-3147 Width: 480-1590 mm	
	Resolution	ABS: 1-99% at 200 lpi at 2400 dpi Sublima: 1-99% at 340 lpi at 2400 dpi FM 20 μm	
	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/m²	
	ENVIRONMENT		
	Room lighting	Daylight	
	Room conditions (T, RH)	18-24 °C (64-75 °F), < 70% RH	
	Storage conditions	Below 32 °C (90 °F), <70% RH	

 Plate cleaner
 Antura CtP Plate Cleaner

 Wash-out gum
 Antura CleanGum

 Fountain solution
 Compatible with all fountain solutions from Agfa Graphics

 Roller & blanket washes
 Compatible with all roller & blanket washes from Agfa Graphics

A chemical passport indicating the most appropriate chemistry is available for all Agfa plates. Not all plates are available in every region. Contact your local Agfa representative for more information.

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