



ADAMAS

A robust chem-free printing plate for newspaper printing with outstanding performance

Unique in its class, Adamas is a non-ablative chem-free printing plate that does not require pre-heating and offers outstanding performance. Based on patented ThermoLink technology, this plate covers an extensive range of demanding newspaper printing applications.

AGFA 

Adamas

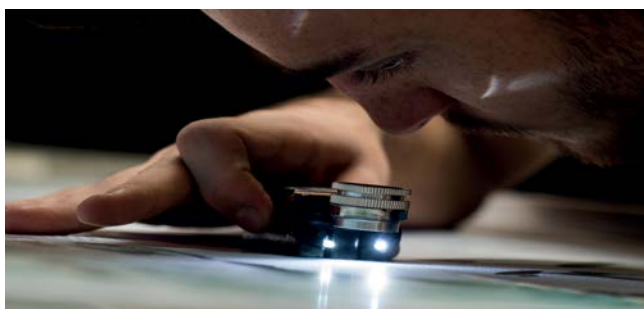
A robust chem-free printing plate

Unbeatable performance

For those who insist on delivering supreme image quality, productivity and versatility with a minimal ecological footprint, Agfa offers Adamas – a robust chem-free photopolymer plate that does not require pre-heating and offers outstanding performance.

Adamas combines a high image quality and run length with predictable low dot gain and compatibility with most thermal newspaper platesetters on the market. To unlock this plate's full potential, combine it with one of Agfa's dedicated and compact Adamas clean-out units.

The printing plate covers a wide range of applications produced in newspaper printing plants today, like daily and weekly newspapers, special interest editions or magazine-like products.



Razor-sharp results

When you opt for Adamas, you opt for a high-contrast plate with photorealistic image quality up to 200 lpi (1,200/1,270 dpi) or higher screening, depending on your platesetter and screening technology. Thanks to its protective layer, which prevents oxidation and eliminates ablation, Adamas is a durable and low-maintenance product.

Productivity made simple

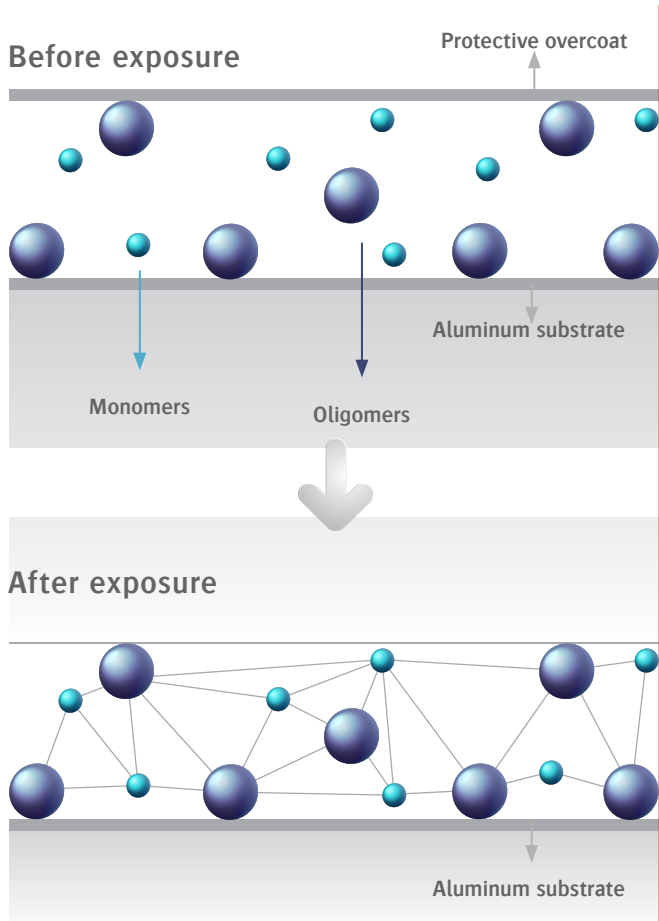
A highly sensitive printing plate, Adamas is designed to handle print runs of up to 350,000 copies. It combines fast, accurate and wide-latitude plate exposure with simple processing and robustness. In fact, Adamas allows for coldset and low-power UV printing (with a run length of up to 75,000 revolutions). Its highlight dots are tough enough to offer a high-quality press performance even on the longest press runs.

A variety of applications

Adamas covers a wide range of applications produced in newspaper printing today, such as daily and weekly newspapers, special interest editions or magazine-like products. Thanks to its robustness, the plate is perfect for newspaper printing, but if you don't need such high productivity, Adamas's sensitivity will instead guarantee an extremely long laser lifespan.

- ✓ Coldset press: newspapers
- ✓ Coldset press with UV or heatset inks: special interest editions or magazine-like products





Optimal convenience

While Adamas's robust and scratch-resistant surface allows for easy handling, its strong image contrast supports simple visual inspection and quality control, ensuring plates are mounted on press correctly. The plate supports all kinds of vision benders and barcode readers in the punch & bending and stacking area.

Patented ThermoLink technology

As a cutting-edge photopolymer plate, Adamas is based on Agfa's patented ThermoLink technology. Thanks to this technology, the plate compounds are cross-linked without pre-heating, resulting in robustness, high image quality and optimal press performance. This swift polymerization process also ensures a predictable, low dot gain, making Adamas similar to a linear plate.

Furthermore, Adamas uses Agfa's proven grained and anodized aluminum substrate technology to establish its unbeatable press performance, durability and press latitude. This electrochemical graining and anodizing enables the reliability and robustness crucial in a modern pressroom.

Adamas COU – dedicated clean-out units that take ecology to the next level

To unlock the full potential of the Adamas plate, it should be combined with one of Agfa's dedicated Adamas clean-out units. The compact Adamas COU85, COU125 and COU150 are based entirely on sustainable innovation that targets ecology, economy and extra convenience (Agfa's ECO³ approach).

Relying on a two-gum concept – dedicated, pH-neutral clean-out gum (either concentrated or ready-to-use), and protective finishing gum – this clean-out series requires only small quantities of concentrated chemicals and minimal energy to swiftly clean Adamas plates. With a long gum bath life and no water requirement, Adamas COU solutions are showpieces of green technology. There's no need for a developer or replenisher and everything is pre-set.

The result? Less waste, lower disposal costs and a safer work environment.



ECO³

Agfa is committed to sustainable innovation that focuses on ecology, economy, and extra convenience—or ECO³. Our hardware, software and consumables make your prepress and printing operations cleaner, more cost-effective and easier to operate and maintain.

The ultimate goal? More value for your entire printing business!

Technical specifications

PLATE CHARACTERISTICS			
Technology	Chemistry-free ThermoLink technology		
Substrate	High-quality grained and anodized aluminum		
Spectral sensitivity	830 nm thermal		
Energy	90 mJ/cm²		
Platesetter compatibility	Accredited for most common 830 nm external drum platesetters		
Image contrast	Excellent. The plates can be measured with all available densitometers and plate readers.		
Plate sizes	Length: 289-1500 mm Width: 400-2100 mm		
Gauges	0.15-0.40 mm (0.006-0.016")		
Resolution	AM 200 lpi @ 1,200/1,270 dpi		
Applications	Web printing		
Run length	Up to 350,000 coldset Up to 75,000 in UV		
CLEANING OUT			
Developer	none		
Clean-out gum	Adamas gum		
Replenishment rate	50 ml/m² and 50 ml/h (ready to-use)		
Bath life	8,000 m²		
Finisher	Unifin, RC795		
Clean-out unit	Adamas 85 COU85, & Adamas 125 COU125, Adamas COU150		
ENVIRONMENT			
Light conditions	Daylight		
Room conditions (T, RH)	19-24 °C (64-75 °F), < 70% RH		
Storage conditions	Below 32 °C (90 °F), <70% RH		
AGFA'S PRESSROOM CHEMICALS			
Plate correction pen (for unbaked plates)	Polymer deletion pen		
Scratch remover	Reviva Plate		
Plate cleaner	Standard: ANTURA CtP Plate Cleaner / UV: ANTURA UV PL CLEANER / Dual purpose gum: ANTURA CleanGum		
Fountain solutions	Sheetfed: Not applicable / Heatset: ANTURA fount HS PLUS / Coldset: ANTURA fount CS2 Plus, ANTURA fount CS2 , ANTURA fount CS2-spray		
Rehardener	Standard: RC611 / For RO water: ANTURA water conditioner		
Roller and blanket washes	Standard: Xtrawash Plus 40 & 60 / UV: ANTURA UV74 wash / Heatset: ANTURA wash WEB / Rejuvenator: Reviverol Plus		
ADAMAS CLEAN-OUT UNITS			
	ADAMAS COU85	ADAMAS COU125	ADAMAS COU150
Plate width min/max	200-850 mm (7.9-33.5")	200-1250 mm (7.9-49.2")	200-1480 mm (7.9-58.2")
Plate length min/max	275 mm (10.8")	275 mm (10.8")	275 mm (10.8")
Plate thickness	0.15-0.30 mm (0.006-0.012")	0.15-0.40 mm (0.006-0.016")	0.15-0.40 mm (0.006-0.016")
Processing speed	120-160 cm/min (47-63 inch/min)	120-160 cm/min (47-63 inch/min)	160 cm/min (63 inch/min)
Power	2900 Watt	2900 Watt	2900 Watt
Weight	280 kg (616 lb)	360 kg (792 lb)	430 kg (946 lb)
Dimensions	1424 x 1122 x 1000 mm (56.06 x 44.17 x 39.37")	1824 x 1122 x 1000 mm (71.81 x 44.17 x 39.37")	2074 x 1122 x 1000 mm (81.65 x 44.17 x 39.37")