



Adamas

A robust, chem-free printing plate with outstanding performance – based on patented ThermoLink technology.

Unique in its class, Adamas is a non-ablative, pre-heat-free, chem-free printing plate that doesn't require pre-heating and offers outstanding performance. This plate covers an extensive range of demanding newspaper and commercial printing applications.

Adamas. A robust, chem-free printing plate with outstanding performance.



Unbeatable performance

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

Adamas combines an image quality of 240 lpi Sublima, a run length of up to 350,000 revolutions with predictable low dot gain and compatibility with most thermal platesetters on the market. To unlock this plate's full potential, combine it with one of Agfa Graphics' dedicated and compact Adamas COU clean-out units.

The printing plate covers a wide range of applications in commercial printing (e.g. web and sheetfed, including conventional UV and low-power UV inks).

Razor-sharp results

When you opt for Adamas, you opt for a high-contrast plate with photo-realistic image quality up to 240 lpi Sublima screening, depending on your platesetter. 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 conventional and low-power UV printing (with a run length of up to 30,000 revolutions) and can handle even abrasive substrates like boards. Its highlight dots are tough enough to offer a high-quality press performance even on the longest press runs.

Optimal convenience

While Adamas' 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. Adamas is made of high-grade aluminum, which prevents costly and time-consuming mistakes and remakes, and can be processed in office light conditions.

ECO³ innovation

Committed to sustainable innovation that targets ecology, economy and extra convenience (ECO³), Agfa Graphics aims at developing cleaner and cost-effective solutions that are easy to operate and maintain, both for chemistry-free and conventional systems.

Adamas is a prime example of this philosophy, requiring only small quantities of concentrated chemicals – even less when combined with the Adamas COU clean-out series. The result? Decreased waste production, lower disposal costs and a safer work environment.



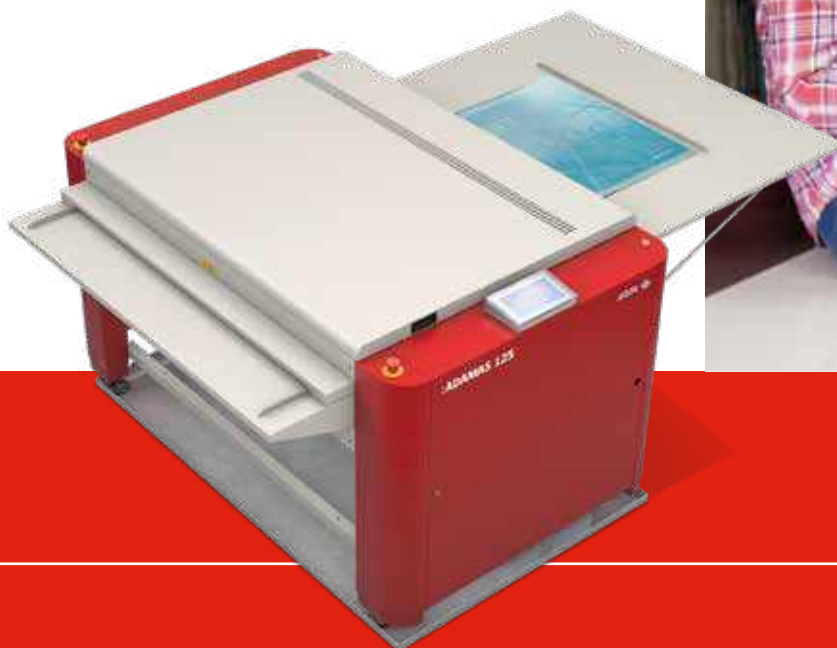
Adamas COU – dedicated clean-out units that take ecology to the next level

To unlock the full potential of the Adamas plate, it should be combined with one of Agfa Graphics' dedicated Adamas clean-out units.

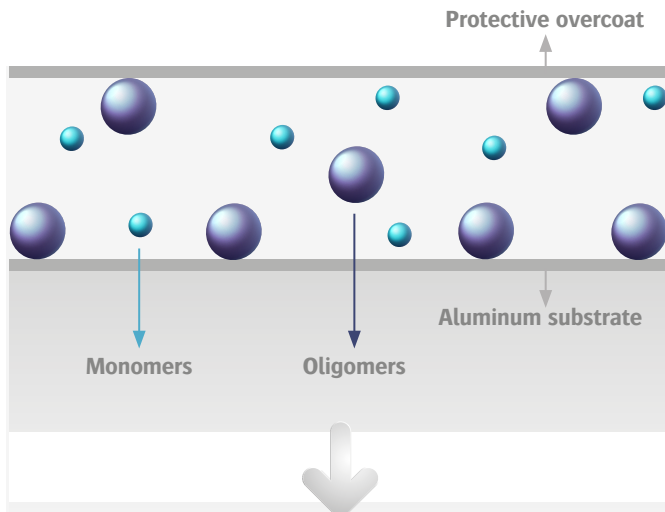
The compact Adamas COU85 and COU125 are based entirely on sustainable innovation that targets ecology, economy and extra convenience (Agfa Graphics' ECO³ approach).

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 (22 ml/m²) 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.

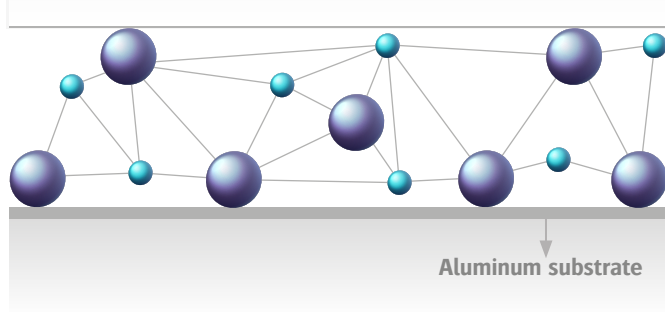
Choose your model: connected online with the platesetter, or stand-alone. There's no need for a developer or replenisher and everything is pre-set. So once the Adamas clean-out unit is installed, you're good to go: the unit is designed to handle up to 50,000 m² of plates a year!



Before exposure



After exposure



Patented ThermoLink technology

As a cutting-edge photopolymer plate, Adamas is based on Agfa Graphics' patented ThermoLink technology. Thanks to the ThermoLink 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.



A variety of applications

Thanks to its robustness, Adamas covers a wide range of demanding print applications - from heatset to commercial sheetfed UV.

- Heatset applications: magazines, catalogs, books, flyers etc.
- Sheetfed applications: compatible with conventional and low-power curing UV inks

Technical specifications

PLATE CHARACTERISTICS	
Technology	Chemistry-free ThermoLink technology
Substrate	High-quality grained and anodized aluminum
Spectral sensitivity	830 nm thermal
Energy	75-90 mJ/cm ²
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 240 lpi
Applications	Web and sheetfed, including conventional UV and low-power UV inks
Run length	Up to 350,000, Up to 30,000 in UV
Cleaning out	
Developer	none
Clean-out gum	Adamas gum
Replenishment rate	67 mL/m ² and 67 mL/h (ready-to-use)
Bath life	3,000 m ²
Finisher	Unifin
Clean-out unit*	Adamas 85 COU & Adamas 125 COU
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

Adamas clean-out units

PLATE CHARACTERISTICS	ADAMAS COU 85	ADAMAS COU 125
Plate width min/max	200-850 mm (7.9-33.5")	200-1250 mm (7.9-49.2")
Plate length min	275 (10.9")	
Plate thickness	0.15-0.30 mm (0.006-0.012")	0.15-0.40 mm (0.006-0.016")
Processing speed	120-160 cm/min (47-63 inch/min)	
Power	1900 Watt	
Weights	280 kg (616 lb)	360 kg (792lb)
Dimensions	1590 x 1290 x 1380 mm (62.0 x 51.0 x 54.0")	1990 x 1290 x 1380 mm (78.0 x 51.0 x 54.0")



ECO³
 Agfa Graphics 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!

www.agfagraphics.com