

# Adamas

A robust pre-heat-free, chem-free printing plate with outstanding performance for demanding newspaper market and commercial printing applications – based on patented ThermoLink technology.



## Overview

Expect supreme image quality, productivity and versatility with a minimal ecological footprint– discover Adamas, Agfa Graphics’ robust pre-heat-free, chem-free photopolymer printing plate.

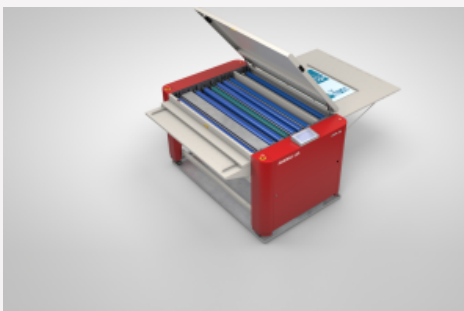
Unique in its class, Adamas combines an image quality of 240 lpi Sublima, a run length of up to 350,000 revolutions with predictable, low dot gain and compatibility with most thermal platesetters on the market, as well as the Adamas clean-out unit.

A versatile diamond in the rough, this plate covers a wide range of applications in both newspaper printing (e.g. thermal computer-to-plate printing) and commercial printing (e.g. web and sheetfed printing, including conventional UV, and low-power UV inks).



## Related Information

### Related Products



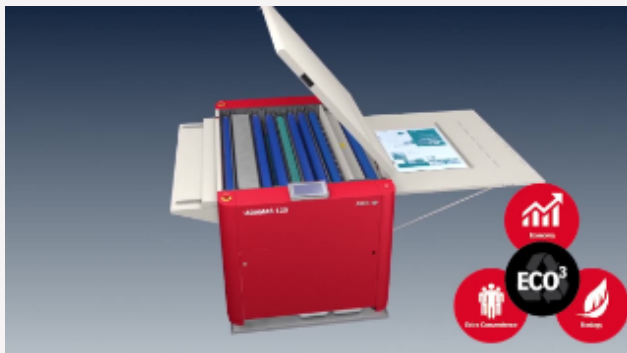
#### Adamas COU

Adamas COU85 and COU125 are dedicated, advanced and compact clean-out units that swiftly finish ...

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## Download

- [Adamas brochure \(English\)](#)



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<https://www.agfagraphics.com/global/en/product-finder/adamas-plate.html>



## Key Benefits

- Patented ThermoLink technology provides robustness, high image quality and optimal press performance.
- Run lengths of up to 350,000 copies (30,000 copies with UV inks)
- Designed to cover an extensive range of demanding applications, from newspaper to commercial printing
- Daylight safety with an imaging resolution of up to 240 lpi Sublima
- Compatible with most thermal platesetters on the market
- No ablation control required
- High-sensitive, high-contrast, chem-free printing plate



## Features

### Razor-sharp results

Adamas provides photorealistic image quality up to 240 lpi Sublima screening, depending on your platesetter type. Its protective overcoat prevents oxidation and eliminates ablation, guaranteeing durability and low maintenance.

### 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.

### Robust and durable

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' 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 and costly mistakes are prevented.

## ECO<sup>3</sup> innovation

Adamas is a prime example of our ECO<sup>3</sup> philosophy, needing very few concentrated chemicals – especially when combined with the Adamas COU clean-out series. The result? Decreased waste production, less disposal costs and a safer work environment.

## 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.

## Applications

From thermal computer-to-plate newspaper applications to commercial sheetfed UV printing – Adamas covers a wide range of demanding print applications. Thanks to its robustness, the plate is perfect for newspaper printing. If you don't need such high productivity, however, Adamas' sensitivity will instead guarantee an extremely long laser lifespan.

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



## ECO<sup>3</sup>

Agfa Graphics is committed to sustainable innovation that focuses on ecology, economy, and extra convenience—or ECO<sup>3</sup>. 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!

[Read more](#)

## Technical Specs

### Plate characteristics

Technology	Chemistry-free ThermoLink technology
Substrate	High-quality grained and anodized aluminum
Spectral sensitivity	830 nm thermal
Energy	90 mJ/cm <sup>2</sup>
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, sheetfed 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 <sup>2</sup> and 67 ml/h (ready-to-use)
Bath life	3,000 m <sup>2</sup>
Finisher	Unifin
Clean-out unit	Adamas 85 COU & Adamas 125 COU
<b>Environment</b>	
Light conditions	Daylight
Room conditions (T, RH)	18-24 °C (64-75 °F), < 70% RH
Storage conditions	Below 32 °C (90 °F), <70% RH

