

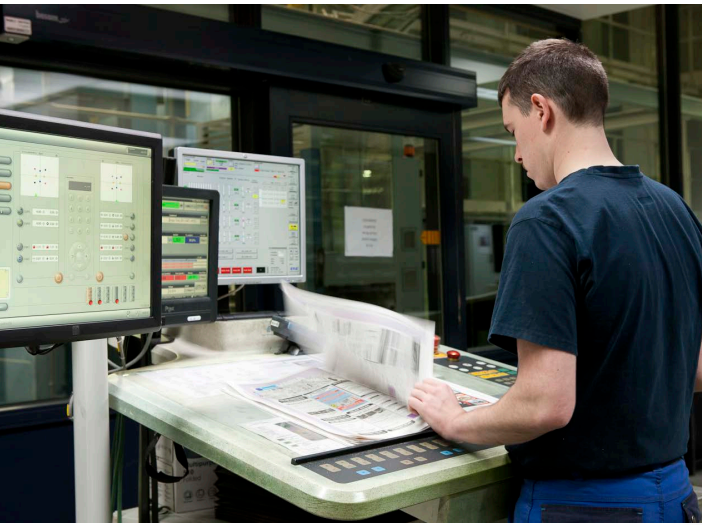
Avatar V-ZH

Robust chemistry-free violet printing plate which requires zero heat for plate production.

Avatar V-ZH is a stable and linear plate that streamlines your production process, as it lowers maintenance and energy consumption in prepress, as well as reduces waste and start-up time during make-ready.

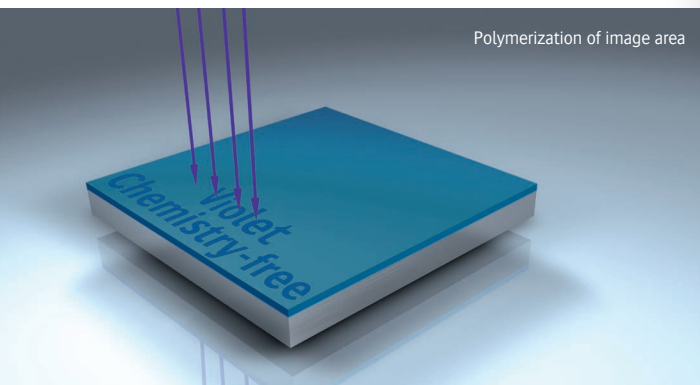
Avatar V-ZH

The next milestone in newspaper platemaking



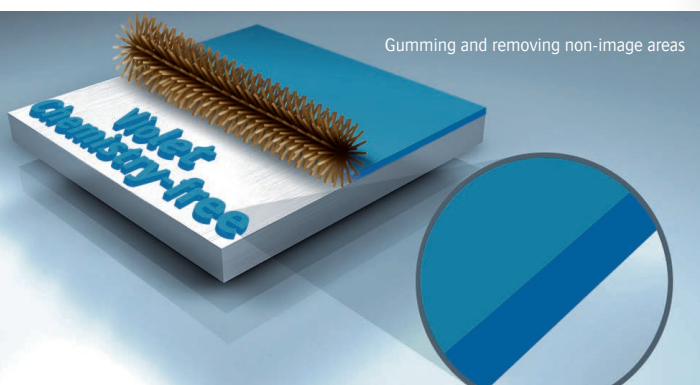
Avatar V-ZH is Agfa Graphics' latest addition to the range of photopolymer offset plates for the newspaper industry. Avatar V-ZH requires zero heat for plate production. Based on the successful experience of our customers with the chem-free photopolymer plate N95-VCF, this newly developed plate technology supports the demand of newspaper printers to further streamline production processes and to reduce machine maintenance and servicing.

In addition, the reduction of waste and start-up time during the make-ready process, as well as stability and linearity throughout the entire print run, and additional energy savings, will empower your daily production. Avatar V-ZH is sensitized for visible lasers emitting at 405 nm, and is designed for chemistry-free operation without any preheat process.



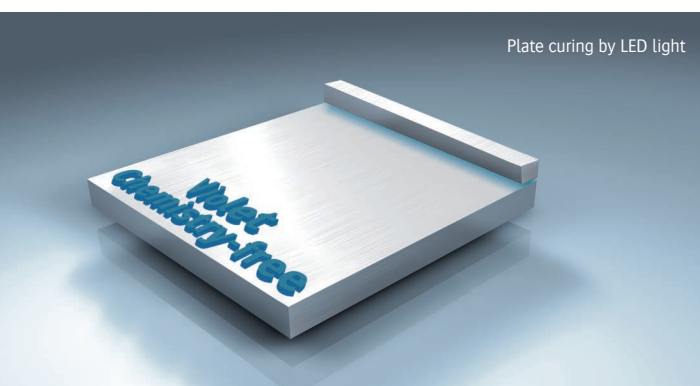
Benefits at a Glance

- The absence of a preheat unit reduces investment cost, saves energy and gains you floor space. It also means your air conditioning will no longer need to run full blast.
- Linear behavior on the press throughout the print run
- High robustness on the press (run length, dot gain, press roll-up...)
- Flexibility: UV-capable for semi-commercial and special applications
- Very high image contrast after clean-out and gumming, allowing an easy visual inspection to avoid mix-ups on press
- Fully daylight resistant once cleaned out
- High scratch resistance
- Suited for high-quality Arkitex Sublima screening



Imaging & Processing Principle

This preheat-free chemistry-free plate works with all violet CtP units currently in use at newspaper print sites across the world. During exposure, the violet-laser diode starts the polymerization of the image area. Subsequently, the plate is gummed with a dedicated plate gum, which removes the soft, unexposed non-image areas in an easy and clean way. Finally, the plate is cured by a LED bar close to the drying section.





Durable Substrate

Avatar V-ZH provides the solid foundation for consistent press performance. Advanced electrochemical graining and anodizing yield the reliability and robustness needed on a newspaper press and the durability required to produce long press runs.

High Performance on Press

With its high-contrast — dark image on a standard aluminium substrate — a quick visual check will quickly reveal possible errors (e.g. imposition) and avoid errors when mounting the plates on the press. Avatar V-ZH combines fast, accurate and wide-latitude plate exposure with predictable, consistent, linear performance on press throughout the print run.



A perfectly clean plate with a clear image at high speed

Avatar V-ZH chemistry-free printing plates form a very attractive solution combined with the high-volume plate production system Advantage N and the high-speed clean-out unit Attiro ZH. The latter features a groundbreaking cascade technology, which brings a wealth of productivity and sustainability.

The Attiro ZH is characterized by minimal gum consumption for maximal clean-out effect. Its extensive bath life results in lower maintenance, while cleaning is easy and fast. A completely flat plate transport means you'll get no buckling of plates between rollers. Existing Agfa clean-out units can easily be upgraded to the preheat-free version.

ECO³

Agfa Graphics is committed to sustainable innovation that focuses on ecology, economy, and extra convenience — or ECO³. We aim at developing cleaner and cost-effective solutions that are easier to operate and maintain, both for chemistry-free and for conventional plate systems.



Avatar V-ZH - Technical Specifications

PLATE CHARACTERISTICS	
Plate type	Negative-working, high-speed, preheat-free, chemistry-free violet-laser offset plate
Coating	Photopolymer
Surface	Electrochemically grained and anodized
Spectral sensitivity	405 nm violet-laser diode
Platesetter compatibility	Most violet platesetters
Image contrast	Very good. Can be measured with all normal plate readers.
Plate sizes	All newspaper sizes, single and broadsheets
Resolution (depending on platesetter)	ABS: 2-97 % at 130 lpi Sublima: 0.5-99.5% at 180 lpi
Gauges	0.20 mm, 0.30 mm
Run length (depending on press conditions)	Up to 300,000 Up to 100,000 for UV inks
Processing	
Clean-out unit	Attiro ZH, VCF 85 or VXCF clean-out units with ZH upgrade option
Clean-out gum	Violet CF GUM NP or Attiro GUM (for Attiro only)
Replenishment	Not required
Bath life	Cleaning of Gum Section 1 required after 4,000 m ² (6.5 l) Full cleaning required after 8,000 m ² (17.6 l)
Processor and clean-out unit	Compatible with most polymer processors and clean-out units
Clean-out speed	0.8-3.0 m/min depending on clean-out unit
ENVIRONMENT	
Room lighting	Yellow
Working conditions	Operating temperature 21-25 °C Relative humidity 40-60 %
Storage conditions	Temperature: < 30°C (86°F) Relative humidity: 40-60 %

Agfa Graphics' Pressroom Chemicals

Plate correction pen (for unbaked plates)	Polymer deletion pen	
	Plate cleaner	Standard
	Cleaning gum	ANTURA CleanGum
Fountain solutions	Sheetfed	Not applicable
	Heatset	Not applicable
	Coldset	ANTURA fount CS2-(s), ANTURA fount CS2-(s)-spray
	Rehardener	RC611
	Rehardener for reverse osmosis water	ANTURA water conditioner
Roller and blanket washes	Xtrawash Plus 40 & 60	

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