

Chemistry-free digital thermal plate system

# :Azura



## **Chemistry-Free Plate System**

***Are you looking for a trouble-free and environmentally friendly platemaking system without ANY compromise on press?***

## **Agfa now offers you :Azura !**

Agfa's mission is to develop innovative solutions. Today, Agfa introduces ground breaking chemistry free CtP technology ... :Azura.

:Azura finally eliminates the processing variables that you worry about and gives you the predictable and consistent quality that you need.

:Azura targets low to medium volume commercial printing in 4-up and 8-up applications.

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# :Azura

## A breakthrough in CtP Convenience

### ***The innovative :Azura technology ensures simple, care-free plate production***

Simply EXPOSE, GUM AND PRINT !

Since there are no processing variables to worry about anymore, :Azura offers you consistent and reliable plates, ready for use.

The :Azura plate uses an innovative, proven thermo-fusible coating technology. This non-ablative thermal CtP technology gives consistent high-quality chemistry-free thermal CtP plates without any compromise on press.

After exposure, the :Azura plates are cleaned and gummed in one simple step with the :Azura C85 Cleaning Unit. The :C85 is a simple and compact device and reliable to use. It requires no developer or replenisher. Nor does the :C85 need a range of speed settings, brush speeds, pH monitors or temperature controls. Everything is pre-set. The :Azura plate is ready in minutes with no possibility of image degradation or variation.

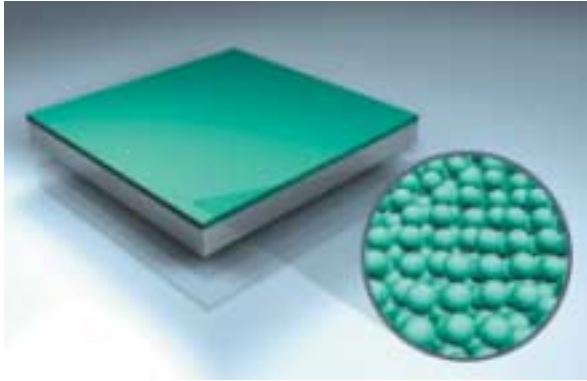
Thanks to its unique concept, :Azura gives you reliable, consistent and care-free plate production.

## Reliable Plates with Predictable Performance

:Azura is suitable for a wide range of commercial printing applications on both sheetfed and web presses. It delivers razor-sharp image definition without having to change press operating conditions.

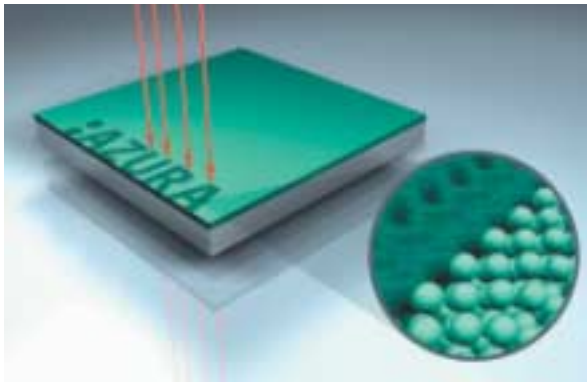
It can hold up to 2-98 % screen tints at 200 LPI, depending on platesetter performance, and delivers runs of up to 100,000, depending on press conditions. :Azura's high-quality grained and anodized aluminium substrate results in uncompromising press performance. As such, :Azura also works with your existing press chemistry - there is no need to change inks, founts or plate cleaners. The aluminium base ensures fast ink roll-up and consistent ink/water balance. It shortens make ready, minimising paper waste and downtime. The end result is MORE EFFICIENCY!





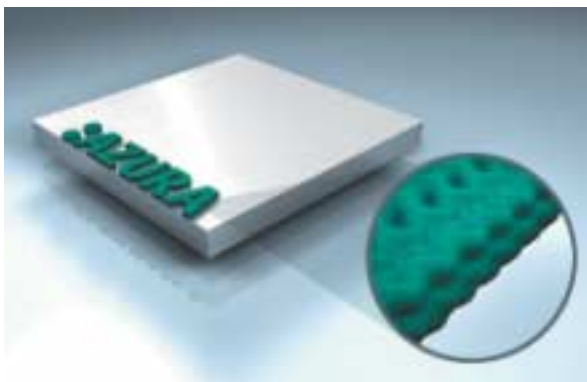
**Unexposed :Azura plate**

The single layer coating contains ink accepting thermofusible pearls.



**Exposed :Azura plate**

The coating absorbs energy from the 830 nm laser imaging head. The thermofusible pearls fuse firmly to each other and bond strongly with the standard grained and anodised aluminium base.



**Gummed :Azura plate**

Application of the gum washes away the unexposed plate areas and creates a protective gum layer. The :Azura plate is now ready for printing.

**Working principle**

:Azura comprises a standard electrochemically grained and anodised aluminium base that is coated with a single layer solution containing ink accepting thermofusible particles, small enough to deliver razor-sharp highlight reproduction.

During the exposure on standard 830 nm thermal plate setters, the coating absorbs the heat in the image areas. This heat causes these thermofusible particles to fuse to each other and bond firmly to the aluminium substrate. What were once individual particles, now become a solid ink-accepting image - tough enough to withstand 100,000 run lengths.

As such, the :Azura image formation is a 100 % physical process, not a chemical one.

The non-imaged areas can now easily be removed, by washing away with the gum in the :C85 Cleaning Unit. At the same time, the gum protects the hydrophilic aluminium substrate from oxidation. The :Azura plates are now ready for the press where they print directly from the aluminium substrate giving the excellent lithographic latitude expected from Agfa plates.

**CtP made simple**

In summary, this ground breaking Chemistry-Free :Azura CtP technology offers you:

- Non-ablative thermal plates
- Care-free platemaking
- Robustness in the press-room
- Plates printing directly from the aluminium substrate

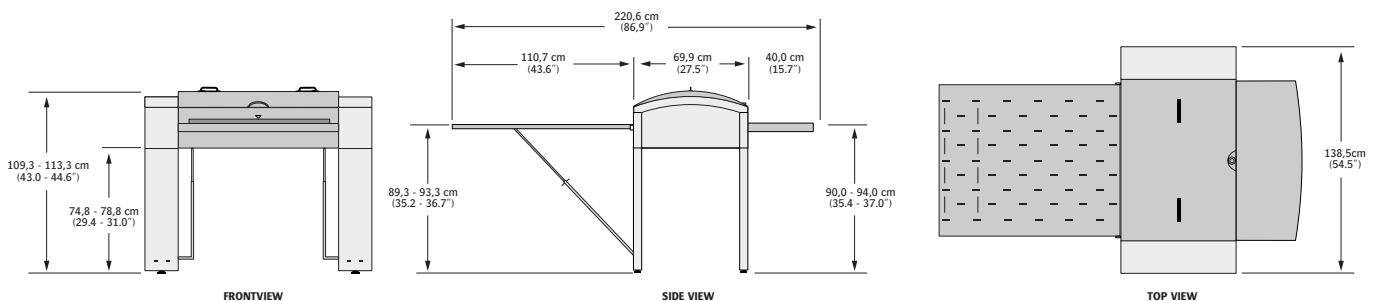
A physical image formation, printing directly from aluminium, excellent and predictable press performance, robust plates with wide working latitude, guarantees you "CtP, made simple"!

# :Azura



:Azura plate specifications	
Plate type	Non-ablative thermal negative working
Coating	Thermofusible, 830nm sensitive
Gauges	0.15, 0.20, 0.30 mm (0.006", 0.009", 0.012")
Substrate	High quality grained and anodised aluminium
Sizes	Standard sheetfed and web sizes
Spectral sensitivity	Typically 300mJ/cm <sup>2</sup> at 830nm
Resolution	Up to 2-98% at 200 LPI depending on imaging conditions
Plate developer	Not required
Storage conditions	Ambient temperatures below 50°C 50 Celsius not to be exceeded for > 24 hours
Run Length	Up to 100,000 dependent on press conditions
Plate baking	not possible

:Azura C85 specifications	
<b>Mechanical Specifications</b>	
Plate width	min - max 230-850 mm (9.1" - 33.5")
Plate length	min - max 300 mm (11.84") - 1100 (43.3")
Plate thickness	min - max 0,15 - 0,30 mm (0,006" - 0,012")
Plate speed	60cm/min. (23.6"/min) fixed
Brush speed (revolutions per min)	120 rpm fixed
temperatures Dryer, process Default	45°C (113°F) fixed
<b>Electrical specifications</b>	
Power Supply EUR-models	Single phase - 1W + N + PE, 230V / 10 Amps, 50-60 Hz
US-models	Single phase - 2W + PE, 230V / 2x10 Amps, 50-60 Hz
JAP-models	Single phase - 2W + PE, 200V / 2x10 Amps, 50-60 Hz
Voltage tolerances	+10 %, -14%
PowerConsumption All models	1900 Watts
<b>Weights</b>	
Shipping Uncrated	225 kg (500lbs) 140 kg (310 lbs)
<b>Dimensions</b>	



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