

# :Azura TS

## ***Chemistry-free Thermal Plate System***

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

Agfa Graphics offers you :Azura TS!

Simply EXPOSE, GUM and PRINT !



Agfa Graphics' mission is to develop innovative solutions. Building on the proven success of the ground breaking and market leading ThermoFuse™ technology, Agfa Graphics is pleased to offer :Azura TS - a fast and rich in contrast ecological way of making plates.

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

:Azura TS meets the needs for commercial printing in 4-up and 8-up applications.

## **A breakthrough in CtP Convenience**

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

#### **Press a button, expose a plate !**

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

The :Azura TS plate uses the innovative, proven ThermoFuse™ 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 TS plates are cleaned and gummed in one simple step with the :Azura Clean Out Unit (COU). This simple, compact and reliable unit requires no developer or replenisher. Nor does the COU need a range of speed settings, brush speeds, pH monitors or temperature controls. Everything is pre-set. The :Azura TS plate is ready in minutes with no possibility of image degradation or variation. Thanks to its unique concept, :Azura TS gives you reliable, consistent and care-free plate production.

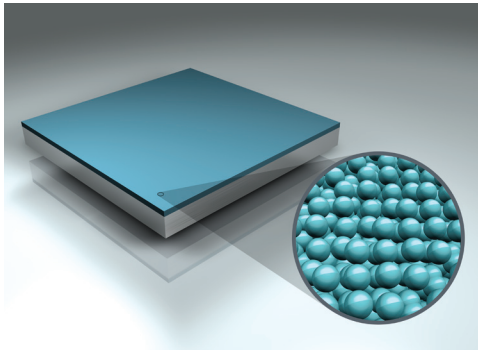
#### **Reliable Plates with Predictable Performance**

:Azura TS is suitable for a wide range of commercial printing applications on both sheet-fed and web presses. It delivers razor-sharp image definition without having to change press operating conditions or working practices. It can hold up to 2-98 % screen tints at 200 LPI and 240 lpi :Sublima, depending on platesetter capability and delivers runs of up to 100.000, depending on press conditions. :Azura TS uses Agfa Graphics' "Flat Grain Technology", the high quality grained and anodised aluminium substrate that results in uncompromising press performance with fast ink roll-up and consistent ink/water balance. This shortens make ready, minimising paper waste and downtime and all this using your existing press chemistry - there is no need to change inks, founts or plate cleaners.

The end result is MORE EFFICIENCY!

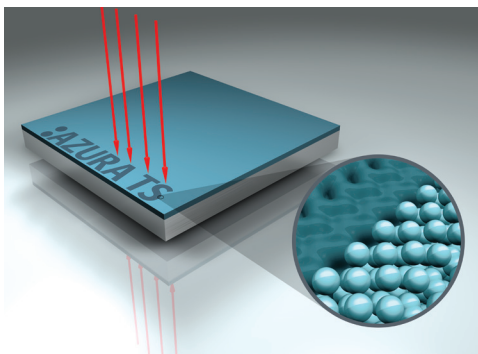


:Azura Clean Out Unit (COU)  
No developer or replenisher required. Everything is pre-set.  
Cleaned and gummed in one simple step.



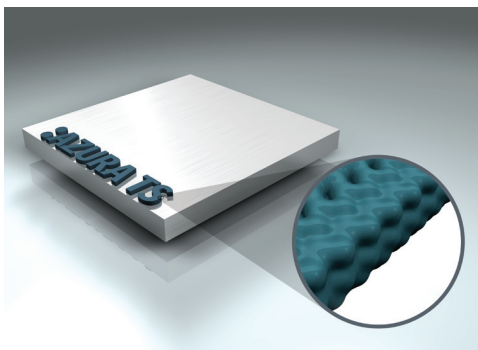
#### **Unexposed :Azura TS plate**

The single layer coating contains ink accepting ThermoFuse™ pearls.



#### **Exposed :Azura TS plate**

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



#### **Gummed :Azura TS plate**

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

## **Working principle**

:Azura TS comprises Agfa Graphics' "Flat Grain Technology" – an electrochemically grained and anodised aluminium base that is coated with a single layer containing ink-accepting ThermoFuse™ particles, small enough to deliver razor-sharp highlight reproduction. During the exposure on standard 830nm thermal platesetters, in the image areas the coating absorbs the heat. This heat causes these 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 achieve 100.000 run lengths.

As such, the :Azura TS 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 :Azura TS gum in the Clean-Out Unit. At the same time, the gum protects the hydrophilic aluminium substrate from oxidation.

The :Azura TS plates are now ready for the press where they print directly from the aluminium substrate giving the excellent lithographic latitude expected from Agfa plates – low dampening levels giving bright colours whilst using less ink.

## **CtP made simple**

In summary, this ground breaking Chemistry-free

:Azura TS CtP technology offers you:

- Non-ablative thermal plates
- Care-free platemaking
- Robustness in the press-room
- Excellent printing characteristics with no press changes required

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 TS

## Plate Specifications

Plate type	Non-ablative thermal - negative-working
Coating	ThermoFuse™, 830 nm sensitive
Gauges	0.15, 0.20, 0.24, 0.30 mm (0.006", 0.008", 0.010", 0.012")
Substrate	High quality grained and anodised aluminium - Agfa Graphics' "Flat Grain Technology"
Sizes	Standard sheetfed and web sizes
Laser energy	200 mJ/cm <sup>2</sup>
Resolution*	Up to 2 - 98 % at 200 lpi – :Sublima 240 lpi (*depending on imaging conditions)
Plate developer	Not required
Latent image stability	24 hours
Plate contrast	Excellent image contrast. Plates can be measured with all available densitometers and platereaders
Storage conditions	Ambient temperatures below 50°C / 50°C not to be exceeded for >24 hours
Run length	Up to 100.000 dependent on press conditions
Plate baking	Not possible

## Agfa Graphics' Optimised Pressroom Chemicals

Plate Cleaner	:Antura CtP Plate Cleaner
Washout Gum	:Antura CleanGum
Deletion pen or gel	KP23 - KP010 - KP011 or KP012
Normal short term storage (max 7 days)	RC795
Baking gum	not applicable
Desensitizer	PlateEtch Plus
Scratch Remover	Reviva Plate
Fountain Solutions	:Azura TS is compatible with all AGFA fountain solutions
Roller and blanket washes	:Azura TS is compatible with all AGFA roller and blanket washes

## COU type

### :Azura C95

### :Azura C125

#### Mechanical Specifications

Plate width	min – max 200-950 mm (7.9" - 37")	min – max 200-1250 mm (7.9" - 37")
Plate length	min – max 310-1100 mm (12.2"-43.3")	min – max 310-1100 mm (12.2"-43.3")
Plate thickness	0.15 – 0.30 mm (0.006" – 0.012")	0.15 – 0.30 mm (0.006" – 0.012")
Plate speed	60cm/min (23.6" – 0.012"), fixed	60cm/min (23.6" – 0.012"), fixed

**A chemical passport indicating the most appropriate chemistry is available for all AGFA plates.  
Not all plates are available in every region. Contact your local Agfa representative for more information.**