

Low chemistry violet plate production

PRODUCT BROCHURE

Low chemistry violet plate production -
setting new standards in commercial printing



Market leading low chemistry plate production for violet applications

The combination of the very latest plate and chemistry technologies, together with a state-of-the-art Fujifilm finishing unit, result in industry-leading chemistry and water use figures. Our low-chemistry systems provide benchmark solutions for improving environmental and business performance. The benefits of this solution are as follows:

Lower chemistry consumption

When Superia PRO-V is used with our low chemistry finishing units, no chemical replenisher is required meaning chemistry consumption is considerably reduced. For a printer using around 10,000 B1 plates over a 1-3 month period, chemistry consumption can be reduced to around 400 litres, a reduction of over 70% (depending upon existing system used).

Lower water use and minimal waste

As Superia PRO-V does not require a post exposure rinse, mains water is eliminated and water consumption is considerably reduced. A simple water top up to the developer chemistry is all that is required to keep the system ticking over effectively. As a result, waste production is also considerably reduced.

Higher consistent quality

Superia PRO-V combines the benefits of low-chemistry CTP with the proven low cost of ownership of violet imaging. The plate itself is rated at 1-99% resolution (when used with a Luxel 'HD' capable platesetter) and it brings unmatched quality, consistency and productivity to violet plate production, with extended run lengths and the ability to easily print FM screens.

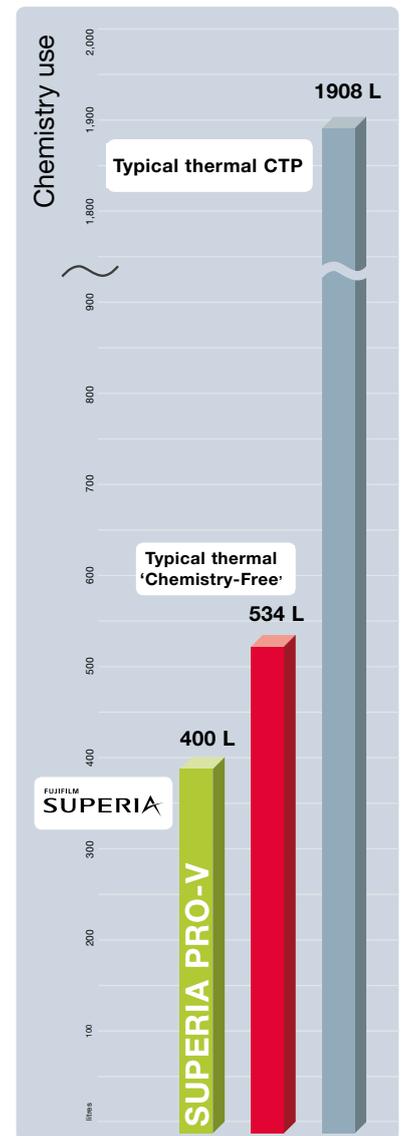
Easier maintenance

The elimination of chemical replenishment and the unique formulation of the developer result in a much cleaner bath which equates to a simpler maintenance regime and easier cleaning.

The complete low chemistry solution

Fujifilm's low chemistry plate production solution for violet CTP applications comprises the Superia PRO-V high definition plate, a unique cleaner working developer tailored to low chemistry production, and a choice of two ranges of finishing unit.

Low chemistry violet		
Plate	Chemistry	Finishing Units
Superia PRO-V	LC-V	FLC-V Range FCF V Range



This graphic highlights the amount of chemistry used by different plate solutions. The calculations assume 10,000 B1 plates are produced over a 1-3 month period.

FLC-V Processor Series

The Fujifilm FLC-V Series is a range of compact CTP finishing units compatible with Superia PRO-V, Fujifilm's leading low-chemistry plate. The finishing units are specifically designed to optimise plate production, with minimal environmental impact. Used in conjunction with Superia PRO-V, they eliminate water rinsing, reducing chemical usage, waste and the overall environmental footprint of plate production.

Key benefits of the FLC-V Series:

- ▶ Elimination of water rinsing
- ▶ No chemical replenishment
- ▶ Simple one bath operation
- ▶ Low cost of ownership
- ▶ Small footprint



	FLC-V85M	FLC-V85H	FLC-V125H
Plate types	Superia PRO-V		
Maximum plate width	850 mm	850 mm	1250 mm
Minimum plate length	252 mm	290 mm	290 mm
Plate gauge	0.15 - 0.3 mm		
Processing time	dip to nip, 19 seconds		
Develop tank capacity	35 litres	44 litres	84 litres
Dimensions (W x D x H)*	1223 x 1295 x 1063 mm	1446 x 1403 x 1115 mm	1860 x 1403 x 1115 mm

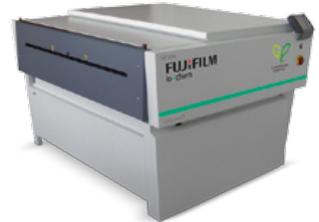
* Not including input/output table

FCF V Processor Series

The FCF V Series perfectly complements Fujifilm's Superia PRO-V low chemistry plate. It is easy to clean and maintain, with an incredibly small footprint, resulting in a simple solution that has clear environmental benefits.

Key benefits of FCF V Series:

- ▶ Environmentally friendly and simple processing
- ▶ Easier maintenance of finishing unit (only one bath)
- ▶ Less waste produced
- ▶ Smaller footprint due to a shorter finishing unit
- ▶ No need for replenishment



	FCF 85V	FCF 125V
Plate types	Superia PRO-V	
Maximum plate width	850 mm	1250 mm
Minimum plate length	274 mm	285 mm
Plate gauge	0.15 - 0.3 mm	
Processing time	dip to nip, 19 seconds	
Tank capacity	23 litres	85 litres
Dimensions (W x D x H)*	1255 x 1300 x (1010 - 1100) mm	1720 x 1660 x (1160 - 1310) mm

* Not including input/output table

World-class, sustainable plate production

Guaranteeing consistent high quality plates and uninterrupted supply requires long-term investment in sophisticated manufacturing techniques and efficient logistics. Fujifilm has invested continuously in its plate supply infrastructure over many years so that printers can benefit from consistent high quality plates, day-in, day-out.

Fujifilm has four global production centres (Netherlands, USA, China and Japan) all dedicated to delivering world-class printing plates. Advanced automation and state-of-the-art quality control at each facility results in the highest standards of production, so wherever you operate in the world and whatever you need, Fujifilm won't let you down.

Fujifilm prides itself on its investment in sustainability, and the Tilburg manufacturing site is a prime example. The site itself achieved ISO 14001 certification in 1997, and has been implementing sustainability improvements every year.

The ultimate aim of the site is to be 100% CO₂ neutral in everything it does.

Recent investments include the installation of five wind turbines and the production process now operates on 100% wind energy for its power requirements. Additionally a co-generative thermal oxidiser takes gases and waste solvents produced as a by-product of the plate manufacturing process and is currently building a joint water purification facility with neighbour companies. With these and other sustainability measures in place, the Fujifilm Tilburg facility estimates that it currently reuses or recycles or regenerates 99% of its waste.

Fujifilm is constantly working at even more sustainable production. The production process operates on wind energy for 100%. We also generate our own energy. We have installed a large afterburner and five wind turbines. At this moment Fujifilm is building a joint water purification with neighbour companies.



Optimised plates and pressroom solutions

In addition to developing market leading printing plates, we go one step further. The way plates perform on-press with the relevant pressroom products is critical to achieving optimum printing results. Because Fujifilm is one of the largest suppliers of pressroom solutions in the industry, we have been able to optimise the formulation of our pressroom products to match our plates. By using Fujifilm plates with our pressroom solutions, you can be guaranteed of the very best performance and print quality.

Superia PRO-V plate

Specification	Superia PRO-V
Print application	Commercial
Laser type	Violet LD 405 nm
Sensitivity	0.045 – 0.09 mJ/cm ²
Resolution:	200 lpi (1 – 99%), device dependent
FM screen capability	20µm FM (device dependent)
Plate gauges	0.15, 0.2, 0.3 mm
Safe light	Bright yellow (G10 or L36W62) for pre-press
Contrast	Excellent
Developer/replenisher	Finishing solution (LC-V), no developer/replenisher required
Bath life	Up to 8 weeks or 20 m ² /L
Gum	Not required
Run length (unbaked)*	Up to 200,000
Run length (baked)*	Up to 400,000
UV run length (unbaked)	Good for short-medium runs with recommended wash and fount

Pressroom solutions compatible* with Superia PRO-V

Founts	Description
FountMax Blue 30.30 AF	IPA-free fount; especially suited to metallic inks
FountMax Blue 30.33 AF	IPA-free fount; for medium hard water; reduced ink feed back
FountMax Blue 30.11	conventional fount for all dampening systems

Washes	Description
WashMax 60.10 MI	64°C flashpoint; manual and automatic cleaning
WashMax 60.65 MI	62°C flashpoint; especially suited to brush automatic blanket washing systems
WashMax UVC 100.01	96°C flashpoint; suitable for NBR and EPDM; for unbaked and processless printing plates

* Run lengths are always dependent on laser power and press conditions.

Please contact your local Fujifilm partner or www.fujifilm-superia.com

For further information:

Web	www.fujifilm-superia.com
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