



## STANDARD OPERATING PROCEDURE

### For Horsell D18 Thermal Printing Plate and Chemistry

Subject: End User Standard Operating Procedure Summary

#### CONFIDENTIAL

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##### Compatible Chemistries:

**Developer:** Horsell D18 Thermal Plate Developer  
**Replenisher:** Horsell D18 Thermal Plate Replenisher /  
Horsell D18 Thermal Plate Developer as top-up

##### Imaging Characteristics:

**Spectral sensitivity:** 800 to 830 nm IR diodes  
**Imaging energy:** 130 – 160 mJ/cm<sup>2</sup> depending on device and developer system  
**Resolution:** 1 - 99% @ 200 lpi  
FM 25 accreditation  
(dependent on platesetter and correct operational parameters)

**Yule Nielson Factor:** 1:14

##### Plate Handling:

**Safelight:** White light operation  
75 minutes @ 1500 lux (ambient room lighting)

**Latent image:** 24-hour stability from imaging to processing

**Post-baking conditions:** Static oven 230 – 240°C for 8 – 10 minutes  
Conveyor oven 1600 mm/minute @ 280 – 290°C

**Finisher:** Any finisher for thermal positive plates

**Storage conditions:** Unopened packs: 16 – 26°C; 40 – 60% RH

**Storage finisher** Any finisher for storing thermal positive plates



**Accredited platesetters:** All Kodak platesetters (Trendsetter, Achieve, Magnus and Lotem platesetters)  
Screen 4000, 4100, 4300, 6600, 8000, 8100, 8300, 8600 and 8800 devices  
Heidelberg SupraSetter and Topsetter devices

**Accredited processors:** Most standard processors

**Processor set up (basics):**

**Dip-to-nip dwell time:** 36s with T18 Developer  
**Temperature:** 23 °C +/- 1 °C  
**Replenishment rate:** 100 – 120 ml/m<sup>2</sup> (with D18 Developer)  
**Anti Ox:** 80 – 100 ml/hr (depending on processor size)  
**Scrub roller speed:** 60 – 120 rpm (depending on processor)  
**Scrub rollers:** 2 – medium/firm scrub pressure  
**Filter:** 50-micron cotton or foam type, change filter 1000 sqm

**Processors should be left on 24 hours a day, 7 days a week, to maintain developer activity levels. All covers should be kept on and closed. If the processor is left turned off for more than 2 days, it is recommended that the developer bath be changed.**

**FM Screening**

The higher end of developer replenishment and anti-oxidation settings are recommended to maintain developer activity levels.