

# Devalex EV & Fixaplus XF2 X-Ray Chemicals

## Devalex EV -

- X-Ray film Developer for automatic processing machines
- 3 part universal developer and replenisher
- Suitable for the processing of all currently available medical and industrial x-ray films
- Fresh Air Included
- Long life, high stability formulation
- Compatible with similar chemical systems
- Contrast control by temperature adjustment
- Produces brilliant radiographs of high diagnostic quality
- Very clean working.

## Fixaplus XF2 -

- X-Ray film Fixer for automatic processing machines.
- Suitable for processing all medical and industrial radiographic and imaging films
- Fresh Air Included
- Emits extremely low level sulphur dioxide and acetic acid emissions from working solution - with levels well below many competitive brands currently available
- Optimized replenishment rates
- Compatible with similar chemical systems
- Very clean working

Processing of all film materials compatible with the **Devalex EV** system.

**Developer Temperature** - The table shown below gives an indication of the average temperature levels at which **Devalex EV** may be employed for any dry to dry time cycle in machines in general hospital departments with average throughputs.

Temp (°C)	Machine Time Cycle (sec)
33-38	45
30-35	90
27-33	120
23-26	210
20-22	300
18-20	420

Replenishment Rates	
General Departments:	320-400mls/m <sup>2</sup> (40-50ml/35cm x 35cm film)
Specialist Departments:	270-460mls/m <sup>2</sup> (35-60ml/35cm x 35cm film)

**Devalex EV**- A factor that must be taken into account in establishing suitable replenishment rates is the film throughput in a given period of time. If the processor is subject to long periods of stand-by a degree of aerial oxidation may take place which is not compensated for by normal replenishment, it is, therefore, necessary to employ a higher replenishment rate than that used with a busier machine. The table is given as a guide:

Number of films (equivalent to 35x35cm) (13.8in x 13.8in) per working day	Developer Replenishment 35cm (13.8in) length of film
Less than 25	70-75
25-50	65-70
50-75	60-65
75-100	55-60
100-125	50-55
125-150	45-50
more than 150	35-40

**Fixaplus XF2**- The temperature of the fixer bath should be set the same as for the developer bath. The recommendations are based on the requirements of a general hospital department and when specialized techniques are employed the fixer injection rates should be modified by plus or minus 10-15%.

Replenishment Rates	
General Departments:	530-730mls/m <sup>2</sup> (65-90ml/35cm x 35cm film)
Specialist Departments:	450-820mls/m <sup>2</sup> (55-100ml/35cm x 35cm film)

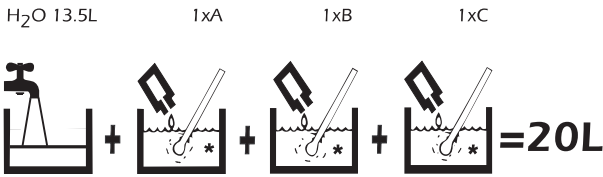
## CHEMISTRY SPECIFICATIONS:

	Devalex EV	Fixaplus XF2
Working solution specific gravity:	1.088	1.089

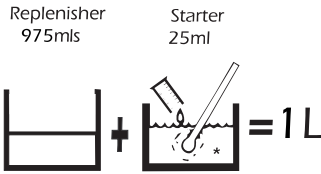
# Preparation: Devalex EV & Fixaplus XF2

Medical X-Ray Chemicals

## Devalox EV X-Ray Developer Replenisher



### Working Solutions: Developer



### Preparation of Solutions:

Full details concerning the preparation of **Devalox EV & Fixaplus XF2** solutions are provided on the pack labels and these should be followed carefully. NB: Any information concerning chemical preparation, marked on the processing machine, or printed in the processor handbook should be disregarded if it conflicts with the recommendations printed on the **Devalox EV & Fixaplus XF2** packs or in this leaflet.

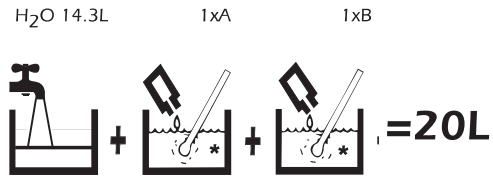
NOTE: Extreme care should be taken to avoid cross-contamination of the developer solutions with fixer, since even small volumes of fixer in the developer will cause large processing variations. Before a tank is refilled, it should be completely drained, thoroughly cleaned and flushed out with water.

### Preparation of Initial Tank Solutions - Devalex EV:

To convert replenisher into solution used for the initial filling of the machine developer tank, add X-RAY DEVELOPER STARTER at the rate of 22.5ml per litre.

## Fixaplus XF2 X-Ray Replenisher Fixer

\*Mix well



### STORAGE OF CHEMICALS:

- **Concentrates** – All of the processing system concentrates have a normal storage life of at least 24 months, when held in unopened containers under steady temperature conditions 13°-18°C (56°F-66°F). However, storage temperature below 5°C(41.5°F) should be avoided as some crystallization may occur.
- **Working Solutions and Replenishers** - Machine tank solutions should not be allowed to stand unused for more than one week, or the activity will be reduced by aerial oxidation. No more than one week's supply of any of the replenisher solutions should be made up at a time. Replenisher solutions should be kept covered with lids to reduce evaporation, oxidation and contamination.
- **Safe Use of Processing Chemicals** - All chemicals should be kept out of reach of children. Refer to labels on the box and to the Material Safety Data Sheet for precautionary information. Protective clothing, including gloves and face/eye protection should always be worn when handling chemicals. Contact our Service Plus Department or your local representative to determine which combination of chemicals is best suited for you.

Supplies:	To Make	Product Code
Devalox EV X-Ray Developer	2x20	120156
Universal Film / X-Ray Starter	Variable	140302
Fixaplus XF2 X-Ray Fixer	2x20L	120202

**WARRANTY:** Seller, Champion Photochemistry Sdn. Bhd., expressly disclaims any and all warranties, express or implied, including any warranties of merchantability or fitness. Seller's sole obligation for defect is to replace the defective product. In no event shall seller have any liability for incidental or consequential damages.

### Manufactured By:

#### CHAMPION PHOTOCHEMISTRY

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