

## **FUJICOLOR NEGATIVE FILM PROCESSING CHEMICALS CN-16S<sup>ER</sup> for MINILAB FILM PROCESSORS FP363SC / FP563SC**

As the volume of color negative films being processed is decreasing, the number of Minilab shops having difficulties in maintaining a consistent processing performance is increasing. To counter this downward trend, new processing chemicals CN-16S<sup>ER</sup> will be released, allowing stable processing even with low film processing volumes.

CN-16S<sup>ER</sup> chemistry can be installed in an easy way to replace the currently used CN-16S. More detailed information on CN-16S<sup>ER</sup> is described below.

CN-16S will continue to be sold.

### **1. Features**

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**(1) A stable and qualitative film processing is achieved even with a film volume only half of the minimum required processing volume with CN-16S**

Installing the new CN-16S<sup>ER</sup> replenisher solutions and simultaneously increasing the replenishing rate (1.66 times higher than current CN-16S) allow the processing solutions to maintain their performance even at today's largely reduced film volumes.

**Note: To install the new replenishing rates, a software update of the film processor is necessary. This software is exclusively available through the local FUJIFILM service representative at the time of installation.**

**(2) "Simple & Clean" thanks to FUJIFILM's very popular cartridge concept**

The same type packaging i.e. cartridge as CN-16S is used, allowing simple, clean and safe handling.

## **2. Precautions**

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- (1) **A software update is required when installing CN-16S<sup>ER</sup> on FP363SC/FP563SC. The software itself is available at no extra charge but the installation has to be handled by a FUJIFILM service engineer. Please contact your local FUJIFILM service representative.**
- (2) When processing 120-size films on a FP563SC, only one film lane can be used at the time. Using two film lanes at the time will result in a shortage of replenisher solution. This limitation does not apply to a FP363SC.
- (3) After switching to CN-16S<sup>ER</sup> processing chemicals, be careful not to use a CN-16S cartridge. Failure to do so will negatively affect the processing performance. The shape of the CN-16S<sup>ER</sup> and CN-16S packaging is identical so be careful to always order the correct processing chemicals.
- (4) The new CN-16S<sup>ER</sup> processing chemicals can be replenished on top of the remaining CN-16S tank solution. When installing the new CN-16S<sup>ER</sup> replenisher solution whilst keeping the remaining CN-16S tank solution currently in use, the processing performance will gradually improve. Be aware that it will take a certain period of time for the tank solutions to fully recover to a performance level that assures constant print quality. If the performance of the processing solution degrades significantly (indicated by the processed control strip largely exceeding the allowable limit), it is recommended to replace all of the tank solutions (N1, N2, N3, N4) as well as the replenisher solutions. To prepare fresh tank solution, use CN-16S Start-up Chemicals.
- (5) When, after introducing CN-16S<sup>ER</sup>, the film processing volume increase again to the same level as in the past and you are convinced that the higher film processing volume will remain for a longer period of time, you can switch back to CN-16S. Please contact your local FUJIFILM service representative.

## **3. Release**

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CN-16S<sup>ER</sup> will be released from Q4 2008 onwards.

#### 4. Product name and components

	Product	Catalogue number	Components	Processing capacity
Replenisher cartridge	CN-16S <sup>ER</sup> NC1	#998484	N1-RA, N2-R, N3-R	135-24 EXP 120 films / cartridge
	CN-16S <sup>ER</sup> NC2	#998492	N1-RB, N4-R	135-24 EXP 600 films / cartridge

- 1) The package of CN-16S<sup>ER</sup> has a pale blue tone to clearly distinguish from CN-16S (green tone).
- 2) One pack CN-16S<sup>ER</sup> NC1 contains two cartridges.
- 3) One pack CN-16S<sup>ER</sup> NC2 now contains one cartridge only.
- 4) For preparing fresh tank solutions, use CN-16S Start-up Chemicals (N1, N2, N3 and N4).

#### 5. Change-over procedure: Important information

- (1) **A software update is required when installing CN-16S<sup>ER</sup> on FP363SC/FP563SC.**
- (2) The new replenisher solution can be replenished on top of the remaining CN-16S tank solution.
- (3) CN-16S replenisher solution can no longer be used. All the remaining replenisher solutions must be disposed off prior to installing the new CN-16S<sup>ER</sup> cartridges (NC1 & NC2).
- (4) Change of the replenishing rate settings (For details, please contact your local FUJIFILM service representative).

#### 6. Performance

##### (1) Minimum processing volume requirement to maintain optimum processing performance

The required number of films to be processed is only half of that required with CN-16S.

If within one month, the processing volume is below the minimum film processing volume specified for CN-16S, a switch to CN-16S<sup>ER</sup> is recommended.

##### <Minimum processing amount per film processor model> in 135-24EXP film

Film processor	CN-16S <sup>ER</sup>		CN-16S	
	FP363SC	5 films/day	30 films/week	10 films/day
FP563SC	7~8 films/day	45 films/week	15 films/day	90 films/week

Note: The minimum amount may vary depending on the operational time and other conditions of the film processor. The values in the table above are for reference only.

**(2) Photographic capabilities**

The photographic characteristics including image stability on the processed film are the same as for CN-16S.

**(3) pH, Specific Gravity and Storage period**

Replenisher solution	pH (25°C)	Specific gravity (25°C)	Storage period
Color developer (N1-RA)	10.50 ± 0.05	1.054 ± 0.003	4 weeks
Color developer (N1-RB)	4.20 ± 0.20	1.005 ± 0.005	20 weeks
Bleach (N2-R)	3.80 ± 0.10	1.126 ± 0.010	4 weeks
Fixer (N3-R)	7.10 ± 0.10	1.270 ± 0.010	4 weeks
Stabilizer (N4-R)	-	-	20 weeks

The pH, Specific gravity and Storage period of tank solutions (fresh solution and running solution) are the same as CN-16S.

**7. Safe handling of chemicals: Supplementary notes****(1) Safety and Storage**

Handling precautions are shown on the cardboard package as well as on the labels onto the individual containers.

See the MSDS of the products for details on storage requirements.

**(2) Material Safety Data Sheet (MSDS)**

See the MSDS of the products for details on properties and handling.

The MSDS is posted on our website: <http://www.fujifilm.eu/feb>

**NOTICE** The data published herein were derived from materials taken from general production runs. However, changes in specifications may occur without prior notice.