

Minilab Compendium

Data and Product Information

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- compactline Cartridges
- Colorprint 1500 for Kis PhotoMe
- Processes for Fuji Minilabs
- Processes for Agfa Minilabs
- Technical Data

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Technical Data / Process Data

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C-41**Colour Developer****CD-HR****High Rate**

Product:	Colour Developer Replenisher		
Formula:	3-Part formula		
Repl. rate:	70 ml/135-24		
Time:	3:15 min.		
Temperature:	38° C ± 0,3° C		
Pack Size:	for 4 x 10 l	Art.-No. 1025301	
Starter:	for 50 l	Art.-No. 104045	CD-S

CD-R**Standard**

Product:	Colour Developer Replenisher		
Formula:	3-Part formula		
Repl. rate:	45 ml/135-24		
Time:	3:15 min.		
Temperature:	38° C ± 0,3° C		
Pack Size:	for 4 x 5 l	Art.-No. 102961	
	for 4 x 10 l	Art.-No. 104867	
	for 2 x 25 l	Art.-No. 104352	
	for 100 l	Art.-No. 103909	
Starter:	for 50 l	Art.-No. 104045	CD-S

CD-LR**Low Rate**

Product:	Colour Developer Replenisher "Low Rate"		
Formula:	3-Part formula		
Repl. rate:	23 ml/135-24		
Time:	3:15 min.		
Temperature:	38° C ± 0,3° C		
Pack Size:	for 4 x 5 l	Art.-No. 104149	
	for 4 x 10 l	Art.-No. 104155	
	for 2 x 50 l	Art.-No. 102479	
Starter:	for 25 l	Art.-No. 104045	CD-S

CD-LR**Low Rate RTU**

Product:	Colour Developer Replenisher		
Formula:	1-Part formula		
Repl. rate:	20 ml/135-24		
Time:	3:15 min.		
Temperature:	38° C ± 0,3° C		
Pack Size:	for 2 x 5 l	Art.-No. 102512	
Starter:	for 50 l	Art.-No. 104045	CD-S

CD-SLR**Super Low Rate**

Product:	Colour Developer Replenisher "Super Low Rate"		
Formula:	3-Part formula		
Repl. rate:	16.5 ml/135-24		
Time:	3:15 min.		
Temperature:	38° C ± 0,3° C		
Pack Size:	for 4 x 10 l	Art.-No. 104019	
	for 2 x 50 l	Art.-No. 104101	
Starter:	for 40 l	Art.-No. 104017	CD-S

C-41**Bleach****C-41 RA****BL-RA**

Product:	Bleach Replenisher RA		
Formula:	1-Part formula, odourless		
Repl. rate:	5 ml/135-24		
Time:	45 s		
Temperature:	38° C ± 3° C		
Pack Size:	5 l "ready to use"	Art.-No. 102664	
Starter:	for 40 l (MultiStarter)	Art.-No. 103333	BL-S MultiStarter

C-41 BNP**BL-BNP**

Product:	Bleach Replenisher BNP		
Formula:	1-Part formula, odourless		
Repl. rate:	5 ml/135-24		
Time:	3 min.		
Temperature:	38° C ± 3° C		
Pack Size:	5 l "ready to use"	Art.-No. 102678	
Starter:	for 50 l (MultiStarter)	Art.-No. 103333	BL-S MultiStarter

CN-16 Q**NQ2-R**

Product:	Bleach and Replenisher		
Formula:	1-Part formula, odourless		
Repl. rate:	20 ml/135-24		
Time:	60 s		
Temperature:	38° C ± 3° C		
Pack Size:	for 8 x 4 l	Art.-No. 102979	
Starter:	Not necessary		

CN-16 FA**N2-R**

Product:	Bleach Replenisher		
Formula:	1-Part formula, odourless		
Repl. rate:	5 ml/135-24		
Time:	50 s		
Temperature:	38° C ± 3° C		
Pack Size:	4 x 2 l "ready to use"	Art.-No. 102660	
Starter:	for 66.7 l (MultiStarter)	Art.-No. 103333	

CN-16 L**N2-R**

Product:	Bleach Replenisher		
Formula:	1-Part formula, odourless		
Repl. rate:	5 ml/135-24		
Time:	50 s		
Temperature:	38° C ± 3° C		
Pack Size:	4 x 2 l "ready to use"	Art.-No. 102660	
Starter:	Not necessary		

C-41**Fixer****C-41 RA****FX-RA**

Product:	Fixer and Replenisher RA	
Formula:	1-Part formula, odourless	
Repl. rate:	33 ml/135-24	
Time:	2 x 45 s (Cascade)	
Temperature:	38° C ± 3° C	
Pack Size:	for 4 x 5 l	Art.-No. 102651
	for 1 x 10 l	Art.-No. 102670
Starter:	Not necessary	

C-41 BNP**FX-BNP**

Product:	Fixer and Replenisher BNP	
Formula:	1-Part formula, odourless	
Repl. rate:	33 ml/135-24	
Time:	2 x 90 s (Cascade)	
Temperature:	38° C ± 3° C	
Pack Size:	for 4 x 10 l	Art.-No. 104852
Starter:	Not necessary	

CN-16 Q**NQ3-R**

Product:	Fixer Replenisher	
Formula:	1-Part formula	
Repl. rate:	30 ml/135-24	
Time:	3:15 min.	
Temperature:	38° C ± 3° C	
Pack Size:	for 8 x 4 l	Art.-No. 102966
Starter:	Not necessary	

Remark:

NQ-2 Replenisher:	Bleach
NQ-3 Replenisher:	Fixer
NQ-2 Working Tank Solution:	Bleach
NQ-3 Working Tank Solution:	Bleach Fix, made of 40 % NQ-2 Repl. and 60 % NQ-3 Repl.

C-41**Fixer****CN-16 FA****N3-R**

Product:	Fixer Replenisher	
Formula:	1-Part formula, odourless	
Repl. rate:	16 ml/135-24	
Time:	2 x 50 s	
Temperature:	38° C ± 3° C	
Pack Size:	4 x 2.5 l "ready to use solution"	Art.-No. 102651
Starter:	Not necessary	

Remark:

The Fixer concentrate (Art.-No. 102651) is used in processes C41RA and CN-16FA. When used in process CN16-FA the concentrate is used as "ready to use" - when used in process C41-RA, the concentrate must be diluted with water to make the Replenisher.

CN-16 L**N3-R**

Product:	Fixer Replenisher	
Formula:	1-Part formula, odourless	
Repl. rate:	8 ml/135-24	
Time:	2 x 50 s	
Temperature:	38° C ± 3° C	
Pack Size:	4 x 2 l "ready to use"	Art.-No. 102662
Starter:	Not necessary	

C-41**Stabilizer****C-41 RA****STAB-BNP**

Product:	Stabilizer and Replenisher BNP	
Formula:	1-Part formula, odourless, formaldehyde-free	
Repl. rate:	40 ml/135-24	
Time:	3 x 20 s (Cascade)	
Temperature:	38° C ± 3° C	
Pack Size:	for 20 x 5 l	Art.-No. 102971
	for 12 x 10 l	Art.-No. 102892
	for 4 x 50 l	Art.-No. 102441
Starter:	Not necessary	

C-41 BNP**STAB-BNP**

Product:	Stabilizer and Replenisher BNP	
Formula:	1-Part formula, odourless, formaldehyde-free	
Repl. rate:	40 ml/135-24	
Time:	3 x 45 s (Cascade)	
Temperature:	38° C ± 3° C	
Pack Size:	for 20 x 5 l	
Art.-No. 102971		
	for 12 x 10 l	Art.-No. 102892
	for 4 x 50 l	Art.-No. 102441
Starter:	Not necessary	

Remark:

The Stabilizer STAB-BNP is compatible with NQ4-R / N4-R. It can be used universally in the processes C-41 RA, C-41 BNP, CN-16 Q, CN-16 FA and CN-16 L. The processing parameter are different, depending on the process.

CN-16 Q / FA / L**Super Rinse****Super Conditioner****TSC Tablets**

Product:	Super Conditioner TSC	
Formula:	Tablets, formaldehyde-free	
Repl. rate:	30 ml / 135-24	CN-16 Q
	34 ml / 135-24	CN-16 FA
	17 ml / 135-24	CN-16 L
Time:	40 s + 60 s	CN-16 Q
	20 s + 20 s	CN-16 FA
	30 s	CN-16 L
Temperature:	38° C ± 3° C	
Pack Size:	for 100 x 5 l	Art.-No. 103152
Starter:	Not necessary	

Remark:

Super Conditioner TSC is a tablet based Super Stabilizer (Super Rinse) for Fuji film- and paper processes. For mixing of replenisher and working solution tablets have to be dissolved in demineralised water. The processing parameter are different, depending on process.

C-41**Stabilizer****CN-16 Q****NQ4-R**

Product:	Stabilizer and Replenisher	
Formula:	1-Part formula, odourless, formaldehyde-free	
Repl. rate:	20 ml / 135-24	
Time:	40 s	
Temperature:	38° C ± 3° C	
Pack Size:	for 20 x 5 l	Art.-No. 102971
	for 12 x 10 l	Art.-No. 102892
	for 4 x 50 l	Art.-No. 102441
Starter:	Not necessary	

CN-16 FA**N4-R**

Product:	Stabilizer and Replenisher	
Formula:	1-Part formula, odourless, formaldehyde-free	
Repl. rate:	20 ml / 135-24	
Time:	20 s	
Temperature:	38° C ± 3° C	
Pack Size:	for 20 x 5 l	Art.-No. 102971
	for 12 x 10 l	Art.-No. 102892
	for 4 x 50 l	Art.-No. 102441
Starter:	Not necessary	

CN-16 L**N4-R**

Product:	Stabilizer and Replenisher	
Formula:	1-Part Formula, odourless, formaldehyde-free	
Repl. rate:	15 ml / 135-24	
Time:	2 x 20 s	
Temperature:	38° C ± 3° C	
Pack Size:	for 20 x 5 l	Art.-No. 102971
	for 12 x 10 l	Art.-No. 102892
	for 4 x 50 l	Art.-No. 102441
Starter:	Not necessary	

Remark:

The Stabilizer NQ4-R / N4-R is compatible with C41 STAB-BNP. It can be used in processes C-41 RA, C-41 BNP, CN-16 Q, CN-16 FA and CN-16 L. The processing parameters depend on the process used.

RA-4**Colour Developer****CD-R****Standard**

Product:	Colour Developer Replenisher		
Formula:	3-Part formula		
Repl. rate:	160 ml/m ²		
Time:	45 s		
Temperature:	35° C		
Pack Size:	for 4 x 10 l	Art.-No. 104580	
	for 100 l	Art.-No. 102249	
Starter:	for 40 l	Art.-No. 104551	CD-S

CD-R**ergoline**

Product:	Colour Developer Replenisher		
Formula:	2-Part formula, odourless		
Repl. rate:	160 ml/m ²		
Time:	45 s		
Temperature:	35° C		
Pack Size:	for 4 x 10 l	Art.-No. 104510	
Starter:	for 40 l	Art.-No. 104551	CD-S

CD-R**monoline**

Product:	Colour Developer Replenisher		
Formula:	1-Part formula		
Repl. rate:	160 ml/m ²		
Time:	45 s		
Temperature:	38° C		
Pack Size:	for 4 x 5 l	Art.-No. 104480	
	for 4 x 10 l	Art.-No. 104481	
Starter:	for 40 l	Art.-No. 104551	CD-S

CD-MR**monoline II**

Product:	Colour Developer Replenisher "Medium Rate"		
Formula:	1-Part formula		
Repl. rate:	108 ml/m ²		
Time:	45 s		
Temperature:	38° C		
Pack Size:	for 4 x 10 l	Art.-No. 104430	
Starter:	for 35.7 l	Art.-No. 102576	CD-S

RA-4

Colour Developer

CD-SLR

monoline

Product:	Colour Developer Replenisher		
Formula:	1 Part formula, odourless		
Repl. rate:	80 ml/m ²		
Time:	45 s		
Temperature:	38° C ± 0.3° C		
Pack Size:	for 4 x 10 l	Art.-No.102549	
Starter:	for 27.8 l	Art.-No.102579	CD-S

CD-SLR

ecoline (2-Parts)

Product:	Colour Developer Replenisher "Super Low Rate"		
Formula:	2 Part formula, odourless		
Repl. rate:	70 ml/m ² at 45 s 90 ml/m ² at 33 s in Agfa MSC 100/101/200		
Time:	45 s		
Temperature:	38° C		
Pack Size:	for 4 x 5 l	Art.-No.102556	
	for 4 x 10 l	Art.-No.102582	
Starter:	for 19.2 l	Art.-No.102576	CD-S

CD-SLR

ecoline (3-Parts)

Product:	Colour Developer Replenisher "Super Low Rate"		
Formula:	3-Part formula		
Repl. rate:	70 ml/m ² at 45 s 90 ml/m ² at 33 s in Agfa MSC 100/101/200		
Time:	45 s		
Temperature:	38° C		
Pack Size:	for 2 x 50 l	Art.-No. 102622	
Starter:	for 19.2 l	Art.-No. 102576	CD-S

CD-ULR / P1-R

Product:	Colour Developer Replenisher "Ultra Low Rate"		
Formula:	1-Part formula (ready to use) or 1-Part formula (concentrate)		
Repl. rate:	45 ml/m ²		
Time:	45 s		
Temperature:	38,5° C		
Pack Size:	for 4 x 2.5 l	Art.-No. 102098	
	1-Part formula, Ready to use: e.g. for SFA 232/238/248.		
	for 4 x 10 l	Art.-No. 102595	
	1-Part formula, Concentrate e.g. for 258/278/290/295/298.		
Starter:	for 20.8 l	Art.-No. 102576	CD-S

RA-4**Bleach Fix****BX****Standard**

Product:	Bleach Fix and Replenisher	
Formula:	2-Part formula	
Repl. rate:	215 ml/m ²	
Time:	45 s	
Temperature:	35° C ± 3° C	
Pack Size:	for 6 x 5 l	Art.-No. 102993
	for 4 x 10 l	Art.-No. 104576
	for 100 l (Part 1 20 l conc.)	Art.-No. 105459
	for 100 l (Part 2 10 l conc.)	Art.-No. 105460
Starter:	Not necessary	

BX-MR**Medium Rate**

Product:	Bleach Fix and Replenisher "Medium Rate"	
Formula:	2-Part formula	
Repl. rate:	100 ml/m ²	
Time:	45 s	
Temperature:	35° C ± 3° C	
Pack Size:	for 100 l (Part 1 10 l conc.)	Art.-No. 102056
	for 100 l (Part 2 20 l conc.)	Art.-No. 102058
Starter:	Not necessary	

BX-MR**Medium Rate "monoline"**

Product:	Bleach Fix and Replenisher "Medium Rate"	
Formula:	1-Part formula	
Repl. rate:	100 ml/m ²	
Time:	45 s	
Temperature:	35° C ± 3° C	
Pack Size:	4 l conc. for 10 l	Art.-No.102060
	for 4 x 5 l	Art.-No.102062
Starter:	Not necessary	

BX-NR**Non Recycling**

Product:	Bleach Fix-Replenisher "No Recycling"	
Formula:	2-Part formula	
Repl. rate:	55 ml/m ²	
Time:	45 s	
Temperature:	35° C ± 3° C	
Pack Size:	for 50 l (Part 1 15 l conc.)	Art.-No. 102350
	for 50 l (Part 2 10 l conc.)	Art.-No. 102352
Starter:	for 66.7 l	Art.-No. 103333 BLS MultiStarter

RA-4**Bleach Fix****P2-R****Colorprint 40**

Product:	Bleach Fix and Replenisher	
Formula:	2-Part formula	
Repl. rate:	215 ml/m ²	
Time:	45 s	
Temperature:	35° C	
Pack Size:	for 6 x 5 l	Art.-No. 102993
Starter:	Not necessary	

Remark: The Bleach Fix P2-R is compatible with RA-4 Standard BX

P2-R**Colorprint 43**

Product:	Bleach Fix Replenisher	
Formula:	2-Part formula, ready to use	
Repl. rate:	61 ml/m ²	
Time:	45 s	
Temperature:	38° C	
Pack Size:	for 2 x 4 l	Art.-No.103099
Starter:	Not necessary	

P2-R**Colorprint 47**

Product:	Bleach Fix Replenisher	
Formula:	2-Part formula, ready to use	
Repl. rate:	35 ml/m ²	
Time:	45 s	
Temperature:	38° C	
Pack Size:	for 2 x 4 l	Art.-No.102099
Starter:	Not necessary	

RA-4**Super Stabilizer****STAB-WL**

Product:	Super Stabilizer and Replenisher	
Formula:	1-Part formula, odourless	
Repl. rate:	250 ml/m ²	4 tank cascade
	350 ml/m ²	3 tank cascade
Time:	4 x 22.5 s	4 tank cascade
	3 x 30.0 s	3 tank cascade
Temperature:	35° C ± 3° C	
Pack Size:	for 20 x 5 l	Art.-No. 104418
	for 20 x 10 l	Art.-No. 104419
	for 1 x 400 l	Art.-No. 104200
Starter:	Not necessary	

Super Rinse**PS-R****Colorprint 40**

Product:	Super Conditioner TSC	
Formula:	Tablets	
Repl. rate:	365 ml / m ²	
Time:	3 x 30.0 s	
Temperature:	35° C ± 3° C	
Pack Size:	for 100 x 5 l	Art.-No. 103152
Starter:	Not necessary	

Remark: To be used in minilabs such as PP 400 B, PP 401 B PP 540 B, PP 541 B, PP 700 W and PP 1270 V.

PS-R**Colorprint 43**

Product:	Super Conditioner TSC	
Formula:	Tablets	
Repl. rate:	242 ml / m ²	
Time:	3 x 30.0 s	
Temperature:	35° C ± 3° C	
Pack Size:	for 100 x 5 l	Art.-No. 103152
Starter:	Not necessary	

Remark: To be used in minilabs such as FA-140 / 170 / 190 / 252 / 720 / and SFA 250 / 251 / 252 / 255 / 270 / 271 / 275 / 290 / 295.

PS-R**Colorprint 47**

Product:	Super Conditioner TSC	
Formula:	Tablets	
Repl. rate:	242 ml / m ²	
Time:	4 x 22.5 s	
Temperature:	35° C ± 3° C	
Pack Size:	for 100 x 5 l	Art.-No. 103152
Starter:	Not necessary	

Remark: To be used in minilabs as SFA 232, SFA 238, SFA 248, SFA 258, SFA 278, SFA 298, LP-1000 P

compactline Cartridges for Frontier and d-labs

TETENAL compactline cartridges for minilabs, such as Fuji Frontier, Agfa d-lab.1, d-lab.2 allow a simple and safe handling with photo chemistry. Preparation errors due to incorrect measurements are eliminated and oxidation problems cannot occur. Compactline cartridges are completely compatible.

Agfa d-lab.1 / d-lab.2	RA-4
RA-4 Paper Cartridges Type 75 Repl. Kit with 2 Cartridges for 2 x 75 m ²	Art.-No. 103016
RA-4 Paper Cartridges Type 110 Repl. Kit With 2 Cartridges for 2 x 110 m ²	Art.-No. 103018
Agfa d-lab. 1 / FP 210	C-41
C-41 Film Box F1 for d-lab 1 / FP 210 Kit with 4 Cartridges for 4 x 400 Films	Art.-No. 103116
C-41 Film Box F2 for d-lab 1 Kit with 2 Cartridges for 2 x 200 Films	Art.-No. 103117
C-41 Film Box F2 for FP 210 Kit with 2 Cartridges for 2 x 200 Films	Art.-No. 103118
Fuji Frontier 330 / 350 / 355 / 370 / 375 / 390	RA-4
RA-4 Paper Cartridge Type 48 Repl. Kit with 2 Cartridges for 2 x 111 m ²	Art.-No. 103012
Fuji Frontier 340 / 500 / 550 / 570 / 590	RA-4
RA-4 Paper Cartridge Type 49 Repl. Kit with 2 Cartridges for 2 x 111 m ²	Art.-No. 103014
Fuji Film Processors FP 363 SC / FP563 SC	C-41
C-41 Film Cartridge 1 Type 16 S Repl. Kit with 2 Cartridges for 2 x 200 Films	Art.-No. 102935
C-41 Film Cartridge 2 Type 16 S Repl. Kit with 2 Cartridges for 2 x 1000 Films	Art.-No. 102936

Colorprint 1500 für KIS PhotoMe Minilabs

For minilabs of the DKS 1500 series Tetenal offers a complete set of compatible RA-4 processing chemistry. Bleach fixing bath and Super stabilizing bath are exactly coordinated on the technical parameters for the DKS High-Speed processing. Colorprint 1500 products allow a simple and safe handling with photo chemistry. The preparation for DKS 1500 series machines occurs automatically – no mixage no stirring, no measurements of concentrates, no chemical splashes. Tetenal Colorprint 1500 chemicals are based upon the „Advanced Odourless Technology“. Agents with a strong odour are replaced by modern odourless substances. Benefits for the user are: no masking or use of technical perfumes and reduced potential of allergic reactions. Additionally the Tetenal Super Stabilizer has a new broad-band formula against microbiological growth – no algae, no slime-forming bacteria – absolute clean tanks.

Colour Developer Replenisher

4 x 2 litre conc. für 4 x 185 m² Art.No. 103024
 1-Part formula, odourless
 Repl.-Rate: 108 ml / m²
 Time: 20 s
 Temperature: 40°C

Bleach Fix

5 litre conc. for 154 m² Art.No. 103026
 1-Part formula, odourless
 Repl.-Rate: 108 ml / m²
 Time: 20 s
 Temperature: 35° - 40°C

Super Stabilizer Replenisher

1 litre conc. for 500 m² Art.No. 103028
 1-Part formula, odourless
 Repl.-Rate: 400 ml / m²
 Time: 20 s
 Temperature: 35° - 40°C

Negative processes for Fuji Minilabs

CN-16 Q

Art.-No.	Product:	Packaging for	FP 230 B	FP 350	FP 550 B	FP 900
102961	NQ1-R	4 x 5 l	x			
104867	NQ1-R	4 x 10 l		x	x	x
102979	NQ2-R	8 x 4 l	x	x	x	x
102966	NQ3-R	8 x 4 l	x	x	x	x
103152	NS-R**	100 x 5 l	x			
102971	NQ4-R/N4-R	20 x 5 l	x			
102892	NQ4-R/N4-R	12 x 10 l		x	x	x

CN-16 FA

Art.-No.	Product	Packaging for	FP 360 B	FP 550BFA	FP 560 B
102512	N1-R (LR)*	2 x 5 l			
104155	N1-R (LR)	4 x 10 l	x	x	x
102660	N2-R*	4 x 2 l	x	x	x
102651	N3-R*	4 x 2,5 l	x	x	x
103152	NS-R**	100 x 5 l	x	x	x
102971	NQ4-R/N4-R	20 x 5 l			
102892	NQ4-R/N4-R	12 x 10 l	x	x	x

CN-16 L

Art.-No.	Product	Packaging for	FP 232 B	FP 362 B	FP 561 B	FP 562 B	FP 922
102512	N1-R (LR)*	2 x 5 l	x				
104155	N1-R (LR)	4 x 10 l		x	x	x	x
102660	N2-R*	4 x 2 l	x	x	x	x	x
102662	N3-R*	4 x 2 l	x	x	x	x	x
103152	NS-R**	100 x 5 l	x	x	x	x	x
102971	NQ4-R/N4-R	20 x 5 l	x				
102892	NQ4-R/N4-R	12 x 10 l		x	x	x	x

* ready-to-use solution

** TSC-Tablets

Paper Processes for Fuji Minilabs

Colorprint 40 (RA-4)

Art.-No.	Product	Packaging for	FA-comp. PP 400	FA-comp. PP 401 B	FA-comp.II PP 540 B
104480	P1-R	4 x 5 l	x	x	x
102993	P2-R	6 x 5 l	x	x	x
103152	PS-R**	100 x 5 l	x	x	x

Colorprint 43 (CP-43 FAII)

Art.-No.	Product	Packaging for	SFA 270 PP 1820	SFA 271 PP 1821	SFA 250 PP 1250	SFA 251 PP 1251
102582	P1-R	4 x 10 l	x	x	x	x
103099	P2-R*	2 x 4 l	x	x	x	x
103152	PS-R**	100 x 5 l	x	x	x	x

Art.-No.	Product	Packaging for	SFA 252 PP 1252	FA-140 PP 1040	FA-170 PP 1800	FA-190 PP 2600
102582	P1-R	4 x 10 l	x	x	x	x
103099	P2-R*	2 x 4 l	x	x	x	x
103152	PS-R**	100 x 5 l	x	x	x	x

Colorprint 47 (CP 47 L)

Art.-No.	Product	Packaging for	SFA 232 PP 720 W	SFA 238 PP 728 W	SFA 248 PP 1058	SFA 258 PP 1258
102098	P1-R*	4 x 2,5 l	x	x	x	
102595	P1-R	4 x 10 l				x
102099	P2-R*	2 x 4 l	x	x	x	x
103152	PS-R**	100 x 5 l	x	x	x	x

Art.-No.	Product	Packaging for	SFA 278 PP 1828	SFA 290 PP 3000	SFA 295 PP 3005	SFA 298 PP 3008
102098	P1-R*	4 x 2,5 l				
102595	P1-R	4 x 10 l	x	x	x	x
102099	P2-R*	2 x 4 l	x	x	x	x
103152	PS-R**	100 x 5 l	x	x	x	x

* ready-to-use solution

** TSC-Tablets

Company and product names are trademarks of the mentioned companies.

Paper Processes for Agfa Minilabs

Art.-No.	Product	Code	Parts	Temp. °C	Time	Packaging	Volume	Repl. rate ml / m ²	Capacity m ²
MSC 100 / 101		Low up to normal workload							
102556	Colour Developer	CD-SLR	2	38 ± 0,3	33	4 x 5 l	20	90	222
102062	Bleach Fix	BX-MR	1	36 ± 3	33	4 x 5 l	20	110	182
104418	Super Stabilizer	STAB-WL	1	36 ± 3	4 x 19	20 x 5 l	100	200	500
MSC 100 / 101		Normal up to high workload							
102098 *	Colour Developer	CD-ULR	1	38 ± 0,3	33	4 x 2,5 l	10	55	182
102062	Bleach Fix	BX-MR	1	36 ± 3	33	4 x 5 l	20	110	182
104418	Super Stabilizer	STAB-WL	1	36 ± 3	4 x 19	20 x 5 l	100	200	500
MSC 200		Low up to normal workload							
102582	Colour Developer	CD-SLR	2	38 ± 0,3	33	4 x 10 l	40	90	444
102060	Bleach Fix	BX-MR	1	36 ± 3	33	1 x 10 l	10	110	91
104419	Super Stabilizer	STAB-WL	1	36 ± 3	3 x 22	20 x 10 l	200	200	1.000
MSC 200		Normal up to high workload							
102595	Colour Developer	CD-ULR	1	38 ± 0,3	33	4 x 10 l	40	55	727
102060	Bleach Fix	BX-MR	1	36 ± 3	33	1 x 10 l	10	110	91
104419	Super Stabilizer	STAB-WL	1	36 ± 3	3 x 22	20 x 10 l	200	200	1.000
MSC 300		Low up to normal workload							
102582	Colour Developer	CD-SLR	2	39 ± 0,3	27	4 x 10 l	40	90	444
102060	Bleach Fix	BX-MR	1	36 ± 3	27	1 x 10 l	10	120	83
104419	Super Stabilizer	STAB-WL	1	36 ± 3	3 x 18	20 x 10 l	200	200	1.000
MSC 300		Normal up to high workload							
102595	Colour Developer	CD-ULR	1	39 ± 0,3	27	4 x 10 l	40	55	727
102060	Bleach Fix	BX-MR	1	36 ± 3	27	1 x 10 l	10	120	83
104419	Super Stabilizer	STAB-WL	1	36 ± 3	3 x 18	20 x 10 l	200	200	1.000
d-lab 3		Low up to normal workload							
102582	Colour Developer	CD-SLR	2	40 ± 0,3	27	4 x 10 l	40	90	444
102060	Bleach Fix	BX-MR	1	37 ± 3	27	1 x 10 l	10	120	83
104419	Super Stabilizer	STAB-WL	1	37 ± 3	3 x 18	20 x 10 l	200	240	833
d-lab 3		Normal up to high workload							
102595	Colour Developer	CD-ULR	1	40 ± 0,3	27	4 x 10 l	40	55	727
102060	Bleach Fix	BX-MR	1	37 ± 3	27	1 x 10 l	10	120	83
104419	Super Stabilizer	STAB-WL	1	37 ± 3	3 x 18	20 x 10 l	200	240	833
d-lab 2 / d-lab 1		Low up to normal workload							
103016	Compactline Paper Cartridges Type 75						Kit for	2 x 75 m ²	150
d-lab 2 / d-lab 1		Normal up to high workload							
103018	Compactline Paper Cartridges Type 110						Kit for	2 x 110 m ²	220

102098 * is a ready to use solution

Paper Processes for Agfa Minilabs

Art.-No.	Product	Code	Parts	Temp. °C	Packaging	Volume	Repl. rate ml / m ²	Capacity m ²
MSC 101								
Low up to normal workload								
102961	Colour Developer	CD-R	3	38 ± 0,2	4 x 5 l	20	45	444
102664 *	Bleach	BL-RA	1	36 ± 3	5 l	5	5	1.000
102651	Fixer	FX-RA	1	36 ± 3	4 x 5 l	20	33	606
102971	Stabilizer	STAB-BNP	1	36 ± 3	20 x 5 l	100	40	2.500
MSC 101								
Normal up to high workload								
104149	Colour Developer	CD-LR	3	38 ± 0,2	4 x 5 l	20	23	870
102664 *	Bleach	BL-RA	1	36 ± 3	5 l	5	5	1.000
102651	Fixer	FX-RA	1	36 ± 3	4 x 5 l	20	33	606
102971	Stabilizer	STAB-BNP	1	36 ± 3	20 x 5 l	100	40	2.500
FP1-72 / FP2-72 / FP3-72 und FP 100 / FP 200								
Low up to normal workload								
104867	Colour Developer	CD-R	3	38 ± 0,2	4 x 10 l	40	45	889
102664 *	Bleach	BL-RA	1	36 ± 3	5 l	5	5	1.000
102670	Fixer	FX-RA	1	36 ± 3	1 x 10 l	10	33	303
102892	Stabilizer	STAB-BNP	1	36 ± 3	12 x 10 l	120	40	3.000
FP1-72 / FP2-72 / FP3-72 und FP 100 / FP 200								
Normal up to high workload								
104155	Colour Developer	CD-LR	3	38 ± 0,2	4 x 10 l	40	23	1.739
102664 *	Bleach	BL-RA	1	36 ± 3	5 l	5	5	1.000
102670	Fixer	FX-RA	1	36 ± 3	1 x 10 l	10	33	303
102892	Stabilizer	STAB-BNP	1	36 ± 3	12 x 10 l	120	40	3.000
FP1- 71 / FP2-71 / FP3-71								
Low up to normal workload								
104867	Colour Developer	CD-R	3	38 ± 0,2	4 x 10 l	40	45	889
102678 *	Bleach	BL-BNP	1	36 ± 3	5 l	5	5	1.000
104852	Fixer	FX-BNP	1	36 ± 3	4 x 10 l	40	33	1.212
102892	Stabilizer	STAB-BNP	1	36 ± 3	12 x 10 l	120	40	3.000
FP1- 71 / FP2-71 / FP3-71								
Normal up to high workload								
104155	Colour Developer	CD-LR	3	38 ± 0,2	4 x 10 l	40	23	1.739
102678 *	Bleach	BL-BNP	1	36 ± 3	5 l	5	5	1.000
104852	Fixer	FX-BNP	1	36 ± 3	4 x 10 l	40	33	1.212
102892	Stabilizer	STAB-BNP	1	36 ± 3	12 x 10 l	120	40	3.000
FP 210								
103116 **	Film Box	F 1						Kit with 4 Film Boxes for 4 x 400
103118	Film Box	F 2						Kit with 2 Film Boxes for 2 x 200
d-lab 1								
103116 **	Film Box	F 1						Kit with 4 Film Boxes for 4 x 400
103117	Film Box	F 2						Kit with 2 Film Boxes for 2 x 200

* 102664 und 102678 ready to use solutions

** 103116 Film Box F1 for FP 210 and d-lab 1

C-41 RA

C-41 RA NP is a four bath, rapid access process designed for minilab systems only. Wet processing time is approx. 6 min. 30 s. and, depending on the dryer efficiency, the resulting dry to dry time is approx. 9 min.

C-41 RA NP is compatible with AP 72 and similar processes.

Processing Data

Bath	Code	Time	Temperature °C ml/135-24		Replenishment rate ml/IX240-25
Colour Developer HR or Colour Developer	CD-HR	3 min. 15 s	38 ± 0,3	70.0	39
or Colour Developer LR	CD-R	3 min 15 s	38 ± 0.3	45.0	25.0
or Colour Developer SLR	CD-LR	3 min 15 s	38 ± 0.3	23.0	12.8
Bleach	BL-RA	45 s	38 ± 3.0	5.0	3.4
Fixer	FX-RA	2 x 45 s	38 ± 3.0	33.0	22.6
Stabilizer	STAB-BNP	3 x 20 s	38 ± 3.0	40.0	27.0

Replenishment rates

The indicated replenishment rates are reference values, which depending on machine type, workload and exposure, can differ. Machine default settings for replenishment rates are usually in ml per 135-24 film. On some machines (i.e. Noritsu), the replenishment rates are set separately for each film format in ml per metre.

Bath	Code	Replenishment rate in ml/m film				
		120	126	135	110	IX-240
Colour Developer	HR	137	90,0	61.0	51,0	34,0
Colour Developer	CD-R	90.1	59.4	39.8	33.7	22.6
Colour Developer LR	CD-LR	45.1	29.7	19.9	16.9	11.3
Colour Developer SLR	CD-SLR	33.0	21.8	14.6	12.3	8.3
Bleach	BL-RA	9.1	4.4	4.4	2.0	3.0
Fixer	FX-RA	60.2	29.2	29.2	13.4	16.6
Stabilizer	STAB-BNP	73.0	35.4	35.4	16.1	24.0

As a routine procedure, we recommend weekly checks of all chemical filters not forgetting the in-line ones and/or the poppet valves in the replenisher pump systems to ensure they are clean and free of obstruction. Blockages in the replenishment system will result in under replenishment causing process inconsistencies.

C-41 RA

Colour Developer

In general, film processors designed for C41-RA-NP, are configured for low rate colour developers such as (CD-LR). However, if the workload is low we recommend that the alternative C-41 standard developer (CD-R) be used to improve the stability of the process. Conversely, if the workload is very high, the use of colour developer super low rate (CD-SLR) enables more economical working with considerably reduced overflow and packaging waste. To change from one to another type of developer is very easy and does not need replacement of the working tank solution. It only requires changing the replenishment rate on the processor to the value for the new type of developer replenisher used. To make a fresh tank of working solution, add water and the appropriate developer starter to the mixed replenisher. (Refer to mixing instructions) Attention should be paid to the following: the starter for CD-SLR is different to the starter used for CD-R and CD-LR. In modern processors, evaporation loss in the working solution is compensated for by an automatic water addition system. If no automatic system exists, then compensation must be made manually. Without water compensation the concentration of the working solution increases leading to over development and to deviations in process stability.

Bleach

Bleach, BL-RA, is supplied as a ready-to-use replenisher solution. No mixing or water addition is required. When making a Bleach working tank solution, water and bleach starter need to be added to the BL-RA replenisher (refer to mixing instructions). To maintain the efficiency of the bleach, the working solution must be aerated. The aeration should be set at a rate that creates surface bubbles, but without excessive foaming. Evaporation must be compensated for by the addition of water, either manually or through automatic water top up systems. Without evaporation compensation, the concentration of the working solution continually increases resulting in crystallisation.

Fixer

Fixer FX-RA is supplied as a concentrate. The replenisher and working tank solution is prepared by mixing the concentrate with an equal amount of water. No starter is required for the tank solution. The normal tank configuration is two in cascade running counter-current. Evaporation must be compensated for by the addition of water, either manually or through automatic water top up systems.

Stabilizer

The C-41 RA NP process uses the stabilizer STAB-BNP in a cascade consisting of 3 working tanks running counter current. Working solution and replenisher are identical and no starter is required for the tank solution. The replenisher is prepared by mixing STAB-BNP concentrate with water. Evaporation compensation is essential. Without this compensation, the concentration of the working solution increases resulting in the formation of flow lines on processed films.

Firmen- und Produktnamen sind Warenzeichen der im Text genannten Firmen.

C-41 RA
Storage life of mixed solutions

Bath	Replenisher in tanks with floating lid	Unused solution in working tanks
Colour Developer and Replenisher	4 weeks	2 weeks
Bleach and Replenisher	unlimited	unlimited
Fixer and Replenisher	8 weeks	4 weeks
Stabilizer and Replenisher	4 weeks	4 weeks

Product range

Product	Code	Packaging for	Art. No.	Number of Parts	Processing Capacity 135-24 films
Colour Developer Replenisher LR	CD-LR	2 x 5 l	102512	1	2 x 217
		4 x 10 l	104155	3	4 x 434
Starter for Colour Developer LR	CD-S	25 l	104045	1	
Colour Developer Replenisher	CD-R	4 x 5 l	102961	3	4 x 111
		4 x 10 l	104867	3	4 x 222
Starter for Colour Developer	CD-S	50 l	104045	1	
Colour Developer Replenisher SLR	CD-SLR	4 x 10 l	104019	3	4 x 606
Starter for Colour Developer SLR	CD-S	40 l	104017	1	
Bleach Replenisher RA					
	BL-RA	5 l	102664	1	1.000
Bleach Starter for BL-RA					
Multistarter	BL-S	40 l	103333	1	
Fixer and Replenisher RA					
	FX-RA	4 x 5 l	102651	1	2 x 151
		1 x 10 l	102670	1	1 x 303
Stabilizer and Replenisher BNP					
	STAB-BNP	20 x 5 l	102971	1	20 x 125
		12 x 10 l	102892	1	12 x 250
Outlet spout DIN 51 for BL-RA and FX-RA (Reusable)			386306		

Note: The outlet spout DIN 51 enables the BL-RA and FX-RA cans to be fully and easily emptied.

C-41 BNP

C-41 BNP is a four bath rapid process for minilab processing only. The wet processing time is approx. 12 min 30 s, and depending upon the dryer efficiency, the resulting dry to dry time is about 15 min.

C-41 BNP is compatible with AP 71.

Processing Data

Working solution	Code	Time	Temperature °C	Raplenishment rate	
				ml/135-24	ml/IX240-25
Colour Developer	CD	3 min 15 s	38 ± 0.3	45	25.0
Colour Developer HR	CD-HR	3 min. 15 s	38 ± 0,3	70	39
Colour Developer LR	CD-LR	3 min 15 s	38 ± 0.3	23	12.8
Colour Developer SLR	CD-SLR	3 min 15 s	38 ± 0.3	16.5	9.2
Bleach	BL-BNP	3 min - 4 min 20 s	38 ± 3.0	5	3.4
Fixer	FX-BNP	4 min - 4 min 20 s	38 ± 3.0	33	22.6
Stabilizer	STAB-BNP	3 x 45 s	38 ± 3.0	40	27.0

Replenishment rates

The replenishment rates are guides only and may differ depending on the machine type, the workload and exposure time. On most machines, the replenishment rates are set in ml per 135-24 exposure film. However, with some processors (e. g. Noritsu), the replenishment rate is set for each film type in ml per metre.

Replenisher	Code	Replenishment rates in ml/m Film				
		120	126	135	110	IX-240
Colour Developer		90,1	59,4	39,8	33,7	22,6
Colour Developer	CD	90.1	59.4	39.8	33.7	22.6
Colour Developer LR	CD-LR	45.1	29.7	19.9	16.9	11.3
Colour Developer SLR	CD-SLR	33.0	21.8	14.6	2.3	8.3
Bleach	BL-BNP	9.1	4.4	4.4	2.0	3.0
Fixer	FX-BNP	60.2	29.2	29.2	13.4	20.0
Stabilizer	STAB-BNP	73.0	35.4	35.4	16.1	24.0

As a routine procedure, we recommend weekly checks of all chemical filters, not forgetting the in-line ones and/or the poppet valves in the replenisher pump systems, to ensure they are clean and free of obstruction. Blockages in the replenishment system will result in under replenishment causing process inconsistencies.

Storage life of mixed solutions

Bath	Replenisher in tanks with floating lid	Unused solution in working tanks
Colour Developer and Replenisher	4 Weeks	2 Weeks
Bleach and Replenisher	unlimited	unlimited
Fixer and Replenisher	8 Weeks	4 Weeks
Stabilizer and Replenisher	4 Weeks	4 Weeks

C-41 BNP

Product range

Product	Code	Packaging for	Art. No.	Number of Parts	Processing Capacity 135-24 films
Colour Developer Replenisher	CD-R	4 x 5 l	102961	3	4 x 111
		4 x 10 l	104867	3	4 x 222
Starter for Colour Developer	CD-S	50 l	104045	1	
Colour Developer Replenisher LR	CD-LR	2 x 5 l	102512	1	2 x 217
		4 x 10 l	104155	3	4 x 434
Starter for Colour Developer LR	CD-S	25 l	104045	1	
Colour Developer Replenisher SLR	CD-SLR	4 x 10 l	104019	3	4 x 606
		2 x 50 l	104101	3	2 x 3.030
Starter for Colour Developer SLR	CD-S	40 l	104017	1	
Bleach Replenisher BNP	BL-BNP	5 l	102678	1	1.000
Bleach Starter for BL-BNP					
Multistarter	BL-S	50 l	103333	1	
Fixer and Replenisher BNP	FX-BNP	4 x 10 l	104852	1	4 x 1303
Stabilizer and Replenisher BNP	STAB-BNP	20 x 5 l	102971	1	20 x 125
		12 x 10 l	102892	1	12 x 250
Outlet spout DIN 51 for BL-BNP		386306			

Note: The BL-BNP is delivered in 5 l. cans as ready to use replenisher. The outlet spout DIN 51 enables the cans to be fully and easily emptied.

Colour Developer

Film processors designed for process C-41 BNP are generally set by the manufacturer for the use of standard colour developer (CD-R). If the workload is high, using colour developer Low Rate (CD-LR) would be more economical with less waste generated. At sites with very high workloads, we recommend using colour developer Super Low Rate to further reduce waste and cost.

Changing from one type of developer to another only requires the appropriate adjustment of the replenishment rate. Fresh working solution is made by adding mixed replenisher to the correct starter and water as directed in the instructions enclosed with the product. It is important to use the correct starter for the type of developer being used.

Evaporation loss must be compensated for at start up by the addition of water. Without this compensation the concentration of the working solution increases resulting in processing deviations.

Bleach

Bleach BL-BNP is supplied as a ready-to-use solution. A bleach working tank solution can be prepared by mixing ready to use bleach BL-BNP with water and the appropriate starter (MultiStarter) as directed in the Instructions enclosed with the product. The bleach working tank must be aerated to ensure continued effective bleaching.

The aeration should be set so, that the bleach solution bubbles without excessive foaming. Losses in Evaporation within the working solution must be compensated for by the addition of water. Without this compensation, the concentration of the working solution would increase and may cause crystallization.

Fixer

The Fixer FX-BNP is used in a two tank cascade configuration running counter current. Replenisher is fed into the 2nd tank. Replenisher and working solution are identical – a starter is not necessary. Replenisher is made by mixing the FX-BNP concentrate with water. Losses in evaporation within the working solution must be compensated for by the addition of water at start up.

Without this compensation, the concentration of the working solution would increase and cause crystallization.

Stabilizer

The Stabilizer STAB-BNP is used in a 3 tank cascade configuration running counter current. Replenisher is fed into the 3rd tank. Working solution and replenisher are identical – a starter is not required for the working tank. Replenisher is made by mixing the STAB-BNP concentrate with water. Losses in evaporation within the working solution must be compensated for by the addition of water. Without this compensation, the concentration of the working solution would increase resulting in the formation of flow lines on processed films.

C-41 RA

Storage life of mixed solutions

Bath	Replenisher in tanks with floating lid	Unused solution in working tanks
Colour Developer and Replenisher	4 weeks	2 weeks
Bleach and Replenisher	unlimited	unlimited
Fixer and Replenisher	8 weeks	4 weeks
Stabilizer and Replenisher	4 weeks	4 weeks

Product range

Product	Code	Packaging for	Art. No.	Number of Parts	Processing Capacity in films 135-24
Colour Developer Replenisher	CD-LR	2 x 5 l	102512	1	2 x 217
Colour Developer Replenisher	CD-R	4 x 5 l	102961	3	4 x 111
		4 x 10 l	104867	3	4 x 222
Starter for Colour Developer	CD-S	50 l	104045	1	
Colour Developer Replenisher LR	CD-LR	4 x 5 l	104149	3	4 x 217
		4 x 10 l	104155	3	4 x 434
Starter for Colour Developer LR	CD-S	25 l	104045	1	
Colour Developer Replenisher SLR	CD-SLR	4 x 10 l	104019	3	4 x 606
		2 x 50 l	104101	3	2 x 3,030
Starter for Colour Developer SLR	CD-S	40 l	104017	1	
Bleach and Replenisher BNP	BL-BNP	5 l	102678	1	1.000
Bleach Starter for BL-BNP					
Multistarter	BL-S	50 l	103333	1	
Fixer and Replenisher BNP	FX-BNP	4 x 10 l	104852	1	4 x 303
Stabilizer and Replenisher BNP	STAB-BNP	20 x 5 l	102971	1	20 x 125
		12 x 10 l	102892	1	12 x 250
Outlet spout DIN 51 for BL-BNP			386306		

Note: The BL-BNP is delivered in 5 l. cans as ready-to-use replenisher. The outlet spout, DIN 51, enables the cans to be fully and easily emptied.

CN-16 Q

CN-16 Q is a five bath process designed for minilabs such as FP 350 B, FP 550 B, FP 900, FP230 B, etc.
Wet processing time is approx. 9 min., 50 s. – depending on dryer efficiency, the resulting dry to dry time is approx. 13 min.

Processing data

CN-16 Q is a five bath process designed for minilabs such as FP 350 B, FP 550 B, FP 900, FP230 B, etc.
Wet processing time is approx. 9 min., 50 s. – depending on dryer efficiency, the resulting dry to dry time is approx. 13 min.

Working solution	Code	Time	Temperature °C	Replenishment rate	
				ml/135-24	ml/IX240-25
Colour Developer HR	CD-HR	3 min. 15 s	38 ± 0,3	70.0	39
Colour Developer or Colour Developer LR or Colour Developer SLR	NQ 1	3 min 15 s	38 ± 0.3	45.0	25.0
Bleach	NQ 2	60 s	38 ± 3.0	20.0	13.6
Bleach Fix	NQ 3	3 min 15 s	38 ± 3.0	30.0	20.5
Super Stabilizer	NQ 5	1 x 40 s and 1 x 60 s	35 ± 3.0	30.0	20.5
Stabilizer	NQ 4	40 s	38 ± 3.0	20.0	13.6

Replenishment rates

The replenishment rates are guides only and may differ depending on the machine type, workload and exposure time. On most machines, the replenishment rates are set in ml per 135-24 exposure film. However, with some processors (e. g. Noritsu), the replenishment rate is set for each film type in ml per metre.

Replenisher	Code	Replenishment rates in ml/m Film				
		120	126	135	110	IX-240
Colour Developer	NQ 1-R	90,1	59,4	39,8	33,7	22,6
Colour Developer	NQ 1-R	90.1	59.4	39.8	33.7	22.6
Colour Developer LR	NQ 1-R	45.1	29.7	19.9	16.9	11.3
Colour Developer SLR	NQ 1-R	33.0	21.8	14.6	12.3	8.3
Bleach	NQ 2-R	36.4	17.6	17.6	8.0	10.0
Fixer	NQ 3-R	54.7	26.5	26.5	12.2	18.2
Super Stabilizer	NQ 5-R	54.7	26.5	26.5	12.2	18.2
Stabilizer	NQ 4-R	36.4	17.6	17.6	8.0	10.0

As a routine procedure, we recommend weekly checks of all chemical filters, not forgetting the in-line ones and/or the poppet valves in the replenisher pump systems, to ensure they are clean and free of obstruction. Blockages in the replenishment system will result in under replenishment causing process inconsistencies.

CN-16 Q

Colour Developer NQ1

The manufacturer normally presets film processors designed for process CN-16 Q for standard colour developer NQ 1 (CD-R). If the workload is high, the use of colour developer NQ 1 Low Rate (CD-LR) is recommended which enables more economical working with considerably reduced overflow and packaging waste. Where the workload is very high, colour developer NQ1 Super Low Rate is recommended which reduces overflow and packaging waste even further.

To change from one to another type of developer is very easy and does not require changing the working tank solution. All that is needed is the setting of the new replenishment rate for the developer used. A fresh tank of working solution is made by mixing replenisher, starter and water as directed in the instructions enclosed with the product. Please note that different starters are used for standard, LR and SLR developers. Be sure to use the correct one. Evaporation loss is automatically compensated for.

NQ2 Bleach/NQ3 Bleach Fix

In the process CN-16 Q, the bleach tank NQ2 and the Bleach fixing bath NQ3 have a linked replenishment system. The bleach working solution NQ2 and the bleach replenisher NQ2-are the same concentrate. A starter is not required when making a fresh working tank solution. The bleach bath overflow NQ2 feeds into the NQ3 tank together with fixer replenisher. Freshly mixed NQ3 working solution (Bleach Fix) is made up of 40 % NQ2 replenisher (Bleach) and 60 % NQ3 replenisher (Fixer). To maintain this ratio, for every film (135-24) processed 20 ml NQ2 overflow and 30 ml NQ3 replenisher are fed into the NQ3 working solution. If for sensitometric reasons (e. g. silver residue) , an increase of the replenishment rate NQ2 is required, then the replenishment rate of NQ3 must be increased by the same ratio. Evaporation loss is compensated for automatically by the processor in most machines, however if no automatic system is in place then manual compensation by a water addition to the working solution must be done daily at start up.

Super Stabilizer (Super Rinse) NQS

Film processors designed for process CN-16 Q work with a special Super Stabilizer (Super Rinse) supplied as tablets. To prepare the replenisher (NQS-R), the tablets should be dissolved in de-ionised water.

Working solution and replenisher are identical. Super Stabilizer NQS is used in a two tank cascade configuration running counter-current with the replenisher fed into the second tank. Evaporation loss must be compensated for, either automatically or by a manual water addition.

Stabilizer NQ4

Stabilizer NQ4 is used as a final bath. It ensures equal drying without spots. To prepare the replenisher – NQ4- the concentrate is diluted with water, preferably de-ionised but not ordinary water can be used. Replenisher and working solution are identical. In modern processors, evaporation loss in the working solution will be compensated for automatically. If not, water addition must be done manually at start up.

CN-16 Q
Storage life of mixed solutions

Bath	Replenisher in tanks with floating lid	Unused solution in working tanks
NQ1-R/NQ1	4 weeks	2 weeks
NQ2-R/NQ1	unlimited	unlimited
NQ3-R/-	8 weeks	-
- /NQ3	-	4 weeks
NQ5-R/NQ5	4 weeks	4 weeks
NQ4-R/NQ4	4 weeks	4 weeks

Product range

Product	Code	Pack size	Art. No.	Number of Parts	Processing Capacity in films 135-24
Colour Developer Replenisher NQ 1	CD-R	4 x 5 l	102961	3	4 x 111
		4 x 10 l	104867	3	4 x 222
Starter for Colour Developer NQ 1	CD-S	50 l	104045	1	
Colour Developer Replenisher NQ 1	CD-LR	4 x 5 l	104149	3	4 x 217
Low Rate		4 x 10 l	104155	3	4 x 434
Starter for Colour Developer LR	CD-S	25 l	104045	1	
Colour Developer Replenisher NQ 1					
Super Low Rate	CD-SLR	4 x 10 l	104019	3	4 x 606
Starter for Colour Developer SLR	CD-S	40 l	104017	1	
Bleach and Replenisher	NQ 2	8 x 4 l	102979	1	8 x 200
Fixer Replenisher	NQ 3	8 x 4 l	102966	1	8 x 133
Super Stabilizer and Replenisher (Super Rinse)	TSC	100 x 5 l	103152	1	100 x 167
Stabilizer and Replenisher	NQ 4	20 x 5 l	102971	1	20 x 250
FRSS filter			103057		

CN-16 FA

CN-16 L is a seven bath process designed for minilabs such as FP 360 B, FP 560 B, FP 920 AL etc.

Wet processing time is approx. 6 min., 45 s. – depending on the dryer efficiency, the resulting dry to dry time is approx. 8 min. 30 s.

Processing data

Working solution	Code	Time	Temperature °C	Replenishment rate ml / 135-24
Colour Developer HR or Colour Developer LR	CD-HR N1	3 min. 15 s 3 min 5 s	38 ± 0,3 38 ± 0.3	39.0 23.0
Colour Developer SLR	N1	3 min 5 s	38 ± 0.3	16.5
Bleach	N2	50 s	38 ± 3.0	5.0
Bleach Fix	N3-1	50 s	38 ± 3.0	
Fixer	N3-2	50 s	38 ± 3.0	16.0
Super Stabilizer I	NS-1	20 s	38 ± 3.0	
Super Stabilizer II	NS-2	20 s	38 ± 3.0	34.0
Stabilizer	N4	20 s	38 ± 3.0	20.0

Replenishment rates

Film processors such as FP 360 B, FP 560 B, FP 922AL and other machines designed for process CN-16 FA, have the replenishment rates of the different solutions adjusted in ml per film 13-24. The Replenishment rate for the film formats, roll film (120), Instamatic (126), Pocket (110) and APS (IX-240) shown in the table are given for comparison only. The processors are able to detect the different formats and automatically replenish the correct volumes.

Replenisher	Code	Replenishment rates in ml/m film				
		120	126	135	110	IX-240
Colour Developer	HR	137.0	90.0	61.0	51.0	34.0
Colour Developer LR	N1-R	45.1	29.7	19.9	16.9	11.3
Colour Developer SLR	N1-R	33.0	21.8	14.6	12.3	8.3
Bleach	N2-R	9.1	4.4	4.4	2.0	3.0
Fixer	N3-R	29.2	14.1	14.1	6.5	8.0
Super Stabilizer	NS-R	54.7	26.5	26.5	12.2	18.0
Stabilizer	N4-R	36.4	17.6	17.6	8.0	12.1

As a routine procedure, we recommend weekly checks of all chemical filters, not forgetting the in-line ones and/or the poppet valves in the replenisher pump systems, to ensure they are clean and free of obstruction. Blockages in the replenishment system will result in under replenishment causing process inconsistencies.

CN-16 FA

Colour Developer N1

Almost all minilabs of the series FP 360 B, FP 560 B, FP 920 AI etc. are designed for process CN-16 FA and are adjusted by the manufacturer to use colour developer Low Rate CD-LR. However if the workload is high, then the use of colour developer Super Low Rate (CD-SLR) enables more economical working with considerably reduced overflow and packaging waste.

To make a fresh tank of working solution, add water and the appropriate developer starter to the mixed replenisher. Be sure to use the correct starter for the developer chosen. In modern processors, evaporation loss within the working tank solution is compensated for by an automatic water addition system.

Bleach N2

Bleach replenisher (N2-R) is supplied as a ready-to-use solution and can be used as a replenisher without adding water. Bleach tank working solution is made by mixing replenisher with water as described in the mixing instructions supplied with the product. To maintain the efficiency of the bleach bath, the working solution must be aerated.

The aeration should be set at a level that the bleach solution bubbles but without causing excessive foaming in the tank. Evaporation loss is compensated for automatically.

Bleach Fix N3-1

The bleach fix working tank (N3-1) is between the bleach (N2) and the fixer working tank (N3-2). This tank is not replenished but is fed with bleach (N2) and fixer overflow (N3-2). Fresh bleach fix working solution for initial tank filling is made by mixing bleach replenisher (N2-R) and fixer replenisher (N3-R) with water. Evaporation loss is automatically compensated for.

Fixer N3-2

Fixer-replenisher (N3-R) is supplied as a ready- to-use replenisher solution. Fresh working solution (N3-2) is made by mixing replenisher (N3-R) with water. Evaporation loss is automatically compensated for.

Super Stabilizer (Super Rinse) NS

Film processors designed for process CN-16 FA work with a special Super Stabilizer (Super Rinse) supplied in tablet form. To prepare the replenisher (NS-R), the tablets are dissolved in de-ionised water.

Working solution and replenisher are identical. Super Stabilizer NS is used in a two tank cascade configuration with replenisher flowing counter-current. The overflow of Super Stabilizer (NS-1) passes into the fixing bath working tank (N3-2). Evaporation loss is automatically compensated for.

Stabilizer N4

Stabilizer N4 is used after Super Stabilizer NS as a final bath. It ensures even drying without spots. To prepare the replenisher, dilute the N4- concentrate with water, preferably de-ionised. If not available, plain water can be used. Replenisher and working solution are identical. Evaporation loss is automatically compensated for.

CN-16 FA

Storage life of mixed solutions

Bath	Replenisher in tanks with floating lid	Unused solution in working tanks
N1-R/N1	4 weeks	2 weeks
N2-R/N2	unlimited	unlimited
N3-R/N3-2	8 weeks	4 weeks
- /N3-1	-	4 weeks
NS-R/NS	4 weeks	2 weeks
N4-R/N4	4 weeks	2 weeks

Product range

Product	Code	Pack Size	Art. No.	Number of Parts	Processing Capacity films 135-24
Colour Developer Replenisher LR	CD-LR	2 x 5 l	102512	1	2 x 217
Starter for Colour Developer LR	CD-S	4 x 10 l	104155	3	4 x 434
Colour Developer Replenisher SLR	N1-R	25 l	104045	1	
Starter for Colour Developer SLR	CD-S	4 x 10 l	104019	3	4 x 606
Bleach Replenisher	N2-R	40 l	104017	1	
Bleach Starter	N2-R	4 x 2 l	102660	1	4 x 400
Multistarter	BL-S		103333	1	
Fixer Replenisher	BL-S	66,7 l	103333	1	
Super Stabilizer and Replenisher	N3-R	4 x 2,5 l	102651	1	4 x 156
Stabilizer and Replenisher	NS-R	100 x 5 l	103152	1	100 x 147
	N4-R	20 x 5 l	102971	1	20 x 250

CN-16 L

CN-16 L is a seven bath process designed for minilabs such as FP 362 B, FP 562 B, FP 922 etc.

Wet processing time is 6 min., 45 s. – depending on the dryer efficiency, the resulting dry to dry time is approx. 8 min. 15 s.

Processing data

Working solution	Code	Time	Temperature °C	Replenishment rate ml / 135-24
Colour Developer HR	CD-HR	3 min. 15 s	38 ± 0,3	39.0
Colour Developer LR	N1	3 min 5 s	38 ± 0.3	23.0
or				
Colour Developer SLR	N1	3 min 5 s	38 ± 0.3	16.5
Bleach	N2	50 s	38 ± 3.0	5.0
Fixer 1	N3-1	50 s	38 ± 3.0	
Fixer 2	N3-2	50 s	38 ± 3.0	8.0
Super Stabilizer	NS	30 s	38 ± 3.0	17.0
Stabilizer I	N4-1	20 s	38 ± 3.0	
Stabilizer II	N4-2	20 s	38 ± 3.0	15.0

Replenishment rates

Film processors such as FP 362 B, FP 562 B, FP 922 and other machines designed for process CN-16 L, have the replenishment rates of the different solutions adjusted in ml per film 13-24. The replenishment rate for the film formats, roll film (120), Instamatic (126), Pocket (110) and APS (IX-240) shown in the table are given for comparison only. The processors are able to detect the different formats and automatically replenish the correct volumes.

Replenisher	Code	Replenishment rates in ml/m film				
		120	126	135	110	IX-240
Colour Developer	HR	137.0	90.0	61.0	51.0	34.0
Colour Developer LR	N1-R	45.1	29.7	19.9	16.9	11.3
Colour Developer SLR	N1-R	33.0	21.8	14.6	12.3	8.3
Bleach	N2-R	9.1	4.4	4.4	2.0	3.0
Fixer	N3-R	14.6	7.1	7.1	3.3	4.0
Super Stabilizer	NS-R	27.4	13.3	13.3	6.1	9.0
Stabilizer	N4-R	27.3	13.2	13.2	6.0	9.1

As a routine procedure, we recommend weekly checks of all chemical filters, not forgetting the in-line ones and/or the poppet valves in the replenisher pump systems, to ensure they are clean and free of obstruction. Blockages in the replenishment system will result in under replenishment causing process inconsistencies.

CN-16 L

Colour Developer N1

Film processors FP 362 B, FP 562 B, FP 922 AL and other machines designed for process CN-16 L are usually preset by the manufacturer for colour developer Low Rate (N1-R). However, if the workload is high, then the use of colour developer Super Low Rate (CD-SLR) enables more economical working with considerably reduced overflow and packaging waste.

To change from one to another type of developer is very easy and does not need replacement of the working tank solution. All that is required is changing the replenishment rate setting on the processor to the value for the new type of developer used.

To make a fresh tank of working solution, add water and the appropriate developer starter to the mixed replenisher. Attention should be paid to the following: the starter used for colour developer Super Low Rate is different to that used for colour developer Low Rate. In modern processors, evaporation loss in the working tank solution is compensated for by an automatic water addition system.

Bleach N2

Bleach replenisher (N2-R) is supplied as a ready-to-use solution and can be used as a replenisher without adding water. Bleach tank working solution is made by mixing replenisher with water as described in the mixing instructions supplied with the product. To maintain the efficiency of the bleach bath, the working solution must be aerated.

The aeration should be set at a level that the bleach solution bubbles but without causing excessive foaming in the tank. Evaporation loss is compensated for automatically.

Fixer N3-1 and N3-2

Fixer replenisher (N3-R) is supplied as a ready-to-use replenisher solution. The normal tank configuration for Fixer is two in a cascade running counter-current. Fresh working solution (N3-1) is made by mixing bleach bath replenisher (N2-R), fixing bath replenisher (N3-R) and water. Fresh working solution (N3-2) is made by mixing fixing bath replenisher (N3-R) and water. Please refer to mixing instructions supplied with the product. Evaporation loss is automatically compensated for in modern processors.

Super Stabilizer (Super Rinse) NS

The film processors designed for process CN-16L work with a special Super Stabilizer (Super Rinse) which is supplied as tablets. To prepare the replenisher (NS-R), the tablets are dissolved in deionised water.

Working solution and replenisher are identical. The overflow of Super Stabilizer (NS) passes into the 2nd fixing bath working tank (N3-2). Evaporation loss is automatically compensated for.

Stabilizer N4-1 and N4-2

Stabilizer N4 is used in a cascade consisting of 2 tanks (N4-1 and N4-2) running counter-current. To make the replenisher, N4-concentrate is diluted with water, preferably deionised. If not available, plain water can be used. Replenisher and working solution are identical. Evaporation loss is automatically compensated for.

CN-16 L
Storage life of mixed solutions

Bath	Replenisher in tanks with floating lid	Unused solution in working tanks
N1-R/N1	4 weeks	2 weeks
N2-R/N2	unlimited	unlimited
N3-R/N3	8 weeks	4 weeks
NS-R/NS	4 weeks	2 weeks
N4-R/N4	4 weeks	2 weeks

Product range

Product	Code	Pack size	Art.-No.	Number of parts	Processing Capacity films 135-24
Colour Developer Replenisher LR	CD-LR	2 x 5 l	102512	1	2 x 217
		4 x 10 l	104155	3	4 x 434
Starter for Colour Developer LR	CD-S	25 l	104045	1	
Colour Developer Replenisher SLR	N1-R	4 x 10 l	104019	3	4 x 606
Starter for Colour Developer SLR	CD-S	40 l	104017	1	
Bleach Replenisher	N2-R	4 x 2 l	102660	1	4 x 400
Fixer Replenisher	N3-R	4 x 2 l	102662	1	4 x 250
Super Stabilizer and Replenisher					
TSC tablets	NS-R	100 x 5 l	103152	1	100 x 294
Stabilizer and Replenisher	N4-R	20 x 5 l	102971	1	20 x 333

RA-4 NP

RA-4 NP is a three bath rapid access process designed both for minilabs and conventional machines also. NP is an abbreviation for “no plumbing” and stands for waterless processing with Super Stabilizer. The wet processing time is approx. 3 min.

Processing data

Bath	Code	Time	Temperature °C	Replenishment rate ml/m ²	
Colour Developer	CD-R	45"	35 °C / 38 °C	160.0	
Colour Developer Medium Rate	CD-MR	45"	38 °C	108.0	
Colour Developer Super Low Rate SP80	CD/SLR	45"	38 °C	80.0	
Colour Developer Super Low Rate	CD-SLR	45"	38 °C	70.0	
Colour Developer Ultra Low Rate	CD-ULR	45"	38 °C	45.0	
Bleach Fix	BX	45"	30 – 36 °C	215.0	
Bleach Fix Medium Rate	BX-MR	45"	30 – 36 °C	100.0	
Super Stabilizer	STAB-WL	45"	30 – 35 °C	250.0	4 tanks
Super Stabilizer	STAB-WL	45"	30 – 35 °C	350.0	3 tanks

Replenishment rates

The replenishment rate can often not be set on the machine in ml/m². The following table gives the replenishment rates in ml/m² for papers of various widths. All figures are guides only and may differ depending on the machine type and the workload.

Bath	Code	Replenishment rate in ml per m of paper			
		Width: 102 mm	127 mm	152 mm	
Colour Developer	CD-R	16.3	20.2	24.3	
Colour Developer Medium Rate	CD-MR	11.0	13.7	16.4	
Colour Developer	HR	137	90.0	61.0	
Colour Developer Super Low Rate SP80	CD-SLR	8.2	10.2	12.1	
Colour Developer Super Low Rate	CD-SLR	7.2	8.9	10.6	
Colour Developer Ultra Low Rate	CD-ULR	4.6	5.7	6.8	
Bleach Fix	BX	21.9	27.3	32.7	
Bleach Fix MR	BX-MR	10.2	12.7	15.2	
Super Stabilizer	STAB-WL	25.5	31.8	38.0	4 tanks
Super Stabilizer	STAB-WL	35.7	44.5	53.2	3 tanks

As a routine procedure, we recommend weekly checks of all chemical filters, not forgetting the in-line ones and/or the poppet valves in the replenisher pump systems, to ensure they are clean and free of obstruction. Blockages in the replenishment system will result in under replenishment causing process inconsistencies.

RA-4

Colour Developer

For the development in the minilab TETENAL offers 5 different colour developer types. Basically these products vary in the replenishment rates:

160 ml / m ² Standard Rate	1-Part, 2-Part und 3 Part formula
108 ml / m ² Medium Rate	1-Part formula
80 ml / m ² Super Low Rate	1-Part formula
70 ml / m ² Super Low Rate	2-Part formula
45 ml / m ² Super Low Rate	1-Part ready-to-use solution and 1-part conc.

To maintain constant high quality processing the optimum choice of developer is determined by the volume of the working tank relative to the workload. The greater the amount of work going through the lab and/or the smaller the developer working tank, the lower the replenishment rate of the developer can be. For very busy labs CD-ULR is ideal but for low volume labs the standard developer type is recommended. A tank of colour developer working solution is made by adding water and the appropriate developer starter to the mixed developer replenisher as directed in the instructions accompanying the product. For Medium Rate, Super Low Rate and Ultra Low Rate developers, the starter RA-4 CD-S (Art. -No. 102576) is used. For For Standard Rate developer, the Starter RA-4 CD-S (Art. -No. 104551) is required.

Bleach Fix

For RA-4 Bleach Fix, a choice of 2 types is offered. As with the colour developer, the difference between them is essentially the replenishment rate:

215-ml/m ² Standard Rate 2-Part formula
100-ml/m ² Medium Rate 2-Part formula

In minilabs with low or average workload, the use of the standard formula is recommended. In sites with average to high workload, the Medium rate product should be used. Again, to maintain constant high performance and optimum quality, the volume of replenisher used within 15 days should equal the volume of the working tank. Bleach Fix working solution and replenisher are identical. A starter is not required. If the workload is low, Tetenal Additive BX can be used to improve the stability of the working solution. This is recommended for use with BX Medium Rate used in low volume sites. The dosage is 10 ml per litre working solution and should be added once per week.

Super Stabilizer

The Super Stabilizer “washes” the photographic paper without the need of additional water. There are two different types on offer. Which you choose depends on the workload of your lab.

250-ml/m ² Standard Rate 1-Part formula
190-ml/m ² Low Rate 1-Part formula

The replenishment rate is dependent on the type of equipment used. Minilabs have either three or four stabilizer tanks arranged in a cascade running counter-current. The working solution and the replenisher are the same strength.

RA-4 NP

Product Range

Product	Code	Packaging for	Art. No.	Number of parts	Processing Capacity in m ²
Colour Developer Replenisher Standard Rate	CD-SLR	4 x 10 l	102549	1	4 x 125
		4 x 10 l	104580	3	4 x 62
Colour Developer Replenisher ergoline	CD-R	4 x 10 l	104510	2	4 x 62
Colour Developer Replenisher monoline	CD-R	4 x 5 l	104480	1	4 x 31
		4 x 10 l	104481	1	4 x 62
Colour Developer Starter for CD-R	CD-S	40 l	104551	1	
Colour Developer Replenisher monoline II	CD-MR	4 x 10 l	104430	1	4 x 92
Colour Developer Replenisher ecoline	CD-SLR	4 x 5 l	102556	2	4 x 71
		4 x 10 l	102582	2	4 x 142
Colour Developer Replenisher monoline	CD-ULR	4 x 10 l	102595	1	4 x 222
Colour Developer Starter for CD-MR/CD-SLR/CD-ULR	CD-S	2,5 l conc.	102576	1	
Bleach Fix and Replenisher Standard Rate	BX	6 x 5 l	102993	2	4 x 23
		4 x 10 l	104576	2	4 x 46
Bleach Fix and Replenisher Medium Rate	BX-MR	4 x 5 l	102062	1	4 x 50
		1 x 10 l	102060	1	1 x 100
		2 x 10 l	102054	2	2 x 100
Additive BX		5 l conc.	102997	1	
Super Stabilizer and Replenisher ergoline	STAB-WL	20 x 5 l	104418	1	20 x 20
		20 x 10 l	104419	1	20 x 40
		1 x 400 l	104200	1	1 x 1600
Super Stabilizer and Replenisher Low Rate	STAB-WL LR	20 x 10 l	104421	1	20 x 52

Colorprint 40

Processing data

Bath	Code	Time	Temperature °C	Replenishment rate ml/m ²
Colour Developer	P1 (CD-R)	45"	38 ± 0.3	160
Colour Developer SLR	P1 (CD-SLR)	45"	38 ± 0.3	70
Bleach Fix	P2	45"	33 – 37	215
Bleach Fix Medium Rate	P2 (BX-MR)	45"	33 – 37	100
Super Stabilizer	PS	3 x 30"	33 – 37	365

Replenishment rates

On some machines the replenishment rate is set as a volume per linear metre. The following table shows the replenishment rate in ml per linear metre for various widths. All figures are guides only as replenishment rates may differ depending on the type of equipment and workload.

Bath	Code	Replenishment rate in ml/m Papier		
		Width: 102 mm	127 mm	152 mm
Colour Developer	P1 (CD-R)	16.3	20.2	24.3
Colour Developer SLR	P1 (CD-SLR)	7.2	8.8	10.6
Bleach Fix	P2	21.9	27.3	32.7
Bleach Fix Medium Rate	P2 (BX-MR)	10.2	12.7	15.2
Super Stabilizer 3 tanks	PS	37.1	46.2	55.3

Colour Developer (P1-R)

Minilabs such as the FA-compact are designed by the manufacturer to use standard RA-4 colour developer. For Sites with high workloads it is recommended that low replenishment rate products such as CD-SLR or CD-ULR Is used. To make a fresh tank of working solution, add water and the appropriate amount of developer starter to the mixed replenisher (refer to mixing instructions enclosed with the product).

Bleach Fix (P2-R)

Colorprint 40 Bleach Fix consists of 2 parts and corresponds to the standard rate RA-4 product. The working solution and replenisher are the same strength. Evaporation loss within the working solution is automatically compensated for. At sites with higher than average workload, the use of RA-4 BX-MR (Medium Rate) is possible thereby reducing mixing time and waste.

Super Stabilizer/Super Rinse (PS-R)

The paper process Colorprint 40, special Super Stabilizer (Super Rinse) is in tablet form. To prepare the replenisher (PS-R), the tablets should be dissolved in de-ionised water. Working solution and replenisher are the same strength. The Super Stabilizer PS-R is used in a 3-tank cascade configuration with the replenisher flowing counter-current. Evaporation loss within the working solution will be automatically compensated for.

Colorprint 40

Storage life of mixed solutions

Bath	Replenisher in tanks with floating lid	Unused solution in working tanks
Colour Developer and Colour Developer-Replenisher	4 weeks	2 weeks
Bleach Fix and Replenisher	6 weeks	4 weeks
Super Stabilizer and Replenisher	6 weeks	4 weeks

Product Range

Product	Code	Packaging for	Art. No.	Number of parts	Processing capacity
Colour Developer Replenisher monoline	P1-R	for 4 x 5 l	104480	2	4 x 31
Colour Developer Replenisher compactline (SLR)	P1-R	for 4 x 5 l	102556	2	4 x 71
Colour Developer Starter	CD-S	for 40 l	104551	1	–
Bleach Fix and Replenisher Standard rate	P2-R	for 6 x 5 l	102993	2	6 x 23
Bleach Fix and Replenisher Medium rate	P2-R	for 4 x 5 l	102062	1	4 x 50
Super rinse	PS-R	100 x 5 l	103152	1	100 x 13
TSC Tablets			103057		
FRSS disposable filter			103057		

Processing capacities have been rounded down.

Colorprint 43

Product range

Product	Code	Packaging for	Art. No.	Number of Parts	Processing Capacity in m ²
Colour Developer Replenisher monoline	P1-R	für 4 x 5 l	104480	2	4 x 31
Colour Developer Replenisher compactline (SLR)	P1-R	für 4 x 5 l	102556	2	4 x 71
Colour Developer-Starter	CD-S	für 40 l	104551	1	–
Bleach Fix and Replenisher Standard Rate	P2-R	für 6 x 5 l	102993	2	6 x 23
Bleach Fix and Replenisher Medium Rate	P2-R	für 5 x 5 l	102052	2	6 x 50
Super Rinse TSC tablets	PS-R	100 x 5 l	103152	1	100 x 13
FRSS disposable filter			103057		
Processing capacities have been rounded down.					

Colorprint 43

Colorprint 43 is a three-bath process designed for processing RA-4 Colour paper in minilabs such as FA-140, FA-170, FA-190, FA-720 and SFA-250/251, SFA-252, SFA-255, SFA-270/271, SFA 275, SFA 290, SFA 295.

Colorprint 43 is compatible with CP-43 FA II.

Processing Data

Bath	Code	Time	Temperature °C	Replenishment rate ml/m ²
Colour Developer SLR	P1	45"	38 ± 0.3	70
Bleach Fix	P2	45"	33 – 37	61
Super Stabilizer	PS	3 x 30"	33 – 37	242

Replenishment rates

On some machines the replenishment rate is set as a volume per linear metre. The following table shows the replenishment rate in ml per linear metre for various widths. All figures are guides only as replenishment rates may differ depending on the type of equipment and workload.

Bath		Replenishment rate in ml/m Papier		
		Width: 102 mm	127 mm	152 mm
Colour Developer SLR	P1	7,2	8,9	10,6
Bleach Fix	P2	6,2	7,7	9,2
PS-1 addition	PS-1 in P2	12,3	15,3	18,3
Super Stabilizer 3 tank cascade	PS	24,6	30,6	36,7

As a routine procedure, we recommend weekly checks of all chemical filters not forgetting the in-line ones and/or the poppet valves in the replenisher system to ensure they are clean and free of any obstruction. Blockages in the replenishment system will result in under replenishment causing process inconsistencies.

Storage life of mixed solutions

Bath	Replenisher in tanks with floating lid	Unused solution in working tanks
Colour Developer and Replenisher	4 weeks	2 weeks
Bleach Fix and Replenisher	6 weeks	4 weeks
Super Stabilizer and Replenisher	6 weeks	4 weeks

Colorprint 43

Colour Developer (P1-R)

Almost all minilabs of the series Fuji FA-140/170/190/720 and SFA 250/251, SFA 252 SFA 255, SFA 270/271, SFA 275, SFA 290, SFA 295 etc., are configured by the manufacturer for the use of RA-4 colour developer type Super Low Rate. However, if the workload is high, the use of an ultra low rate product, CD-ULR as an alternative, is possible. Conversely, if the workload is low, to ensure process stability the use of a standard RA-4 developer is recommended. To make a fresh tank of working solution, add water and the appropriate developer starter to the mixed replenisher (refer to mixing instructions enclosed with the product).

Bleach- Fix (P2-R)

Colorprint 43 P2-R has a special replenishment configuration. 61 ml of Bleach Fix replenisher (P2-R) is mixed together with 121 ml Super Stabilizer pumped out of the first PS-working tank and pumped into the bleach fix-working solution (P2). This reduces the waste volume of Super Stabilizer (PS) considerably. Replenisher (P2-R) is a two-part "ready to use" formula only requiring the two parts to be mixed in the replenishment tank. To make a fresh tank of working solution, add water to the replenisher as directed in the instructions enclosed with the product. No starter is required.

Super Stabilizer/Super Rinse (PS-R)

The paper process Colorprint 43, special Super Stabilizer (Super Rinse) is in tablet form. To prepare the replenisher (PS-R), the tablets should be dissolved in de-ionised water. The working solution and replenisher are the same strength. The Super Stabilizer PS-R is used in a 3-tank cascade configuration with the replenisher flowing counter-current. Evaporation loss within the working solution will be automatically compensated for.

Colorprint 43

Product range

Product	Code	Packaging for	Art. No.	Number of Parts	Processing Capacity in m ²
Colour Developer Replenisher Super Low Rate	P1-R	for 4 x 5 l	102556	2	4 x 71
Starter for Colour Developer	CD-S	for 4 x 10 l	102582	2	4 x 142
Bleach Fix Replenisher Ready to use solution	P2-R	for 19.2 l	102576	–	
Super Rinse TSC tablets	PS-R	for 2 x 4 l	103099	2	2 x 65
FRSS disposable filter		100 x 5 l	103152	1	100 x 20
		103057			

Processing capacities have been rounded down.

Colorprint 47

Product range

Colorprint 47 is a three-bath process designed for processing RA-4 Colour paper in minilabs such as SFA-232, SFA-238, SFA-248, SFA-258, SFA-278, SFA-298 and Frontier digital lab systems. Colorprint 47 is compatible with the CP-47 L process.

Processing Data

Bath	Code	Time	Temperature °C	Replenishment rate ml/m ²
Colour Developer SLR	P1	45"	38 ± 0.3	45.0
Bleach Fix	P2	45"	33 – 37	35.0
Super Stabilizer	PS	3 x 30"	33 – 37	242.0

Replenishment rates

On some machines the replenishment rate is set as a volume per linear metre. The following table shows the replenishment rates in ml per linear metre for various widths. All figures are guides only as replenishment rates may differ depending on the type of equipment and the workload.

Bath		Replenishment rate in ml/m Papier		
		Width: 102 mm	127 mm	152 mm
Colour Developer SLR	P1	7.2	8.9	10.6
Bleach Fix	P2	6.2	7.7	9.2
PS-1/P2 mix	PS-1 in P2	12.3	15.3	18.3
Super Stabilizer 3 tank cascade	PS	24.6	30.6	36.7

As a routine procedure, we recommend making weekly checks of all chemical filters not forgetting the in-line Ones and/or the poppet valves in the replenishment pump systems to ensure they are clean and free of obstructions. Blockages in the replenishment system will result in under replenishment causing process inconsistencies.

Storage life of mixed solutions

Bath	Replenisher in tanks with floating lids	Unused solution in working tanks
Colour Developer and Replenisher	4 weeks	2 weeks
Bleach Fix and Replenisher	6 weeks	4 weeks
Super Stabilizer and Replenisher	6 weeks	4 weeks

Colorprint 47

Colour Developer (P1-R)

Fuji SFA 232, SFA 238, SFA 258, SFA 278, SFA 298 minilabs and Frontier digital labs are preset by the manufacturer for Colour Developer Ultra Low Rate (45 ml/m²). This product is available as a ready to use solution and also as a single solution concentrate. For sites that may have lower than average processing volumes we recommend the use of Super Low Rate (70 ml/m²) and for sites with very low throughput, Medium Rate (108 ml/m²) Developer. The working solution P1 is made by mixing the developer replenisher with water and starter according to the Instructions included with the product. Evaporation loss in the working solution is automatically compensated for.

Bleach Fix (P2-R)

Colorprint 47 P2-R is supplied as a “ready to use” 2 part solution. To mix the replenisher, pour part 1 and part 2 into the replenisher tank – no water is required. However, please note that some machines (e.g. PP 720 W) have separate replenisher tanks for part 1 (A) and part 2 (B). Fresh Bleach Fix working solution is prepared by mixing replenisher with water – no starter is required. Evaporation loss in the working solution will be automatically compensated for.

Super Stabilizer/Super Rinse (PS-R)

In the process Colorprint 47, a special Super Stabilizer (Super Rinse) is used in tablet form. To mix the replenisher (PS-R), the tablets should be dissolved in de-ionised water. Working solution and replenisher are the same strength. The Super Stabilizer PS-R is used in a 3-tank cascade configuration with the replenisher flowing counter-current. Evaporation loss within the working solution will be automatically compensated for.

Product range

Product	Code	Packaging for	Art. No.	Number of Parts	Processing Capacity in m ²
Colour Developer Replenisher	P1-R	für 4 x 2,5 l	102598*	1	4 x 55
Ultra Low Rate		für 4 x 10 l	102595**	1	4 x 222
* Ready to use solution					
** 1-Part Conc.					
Colour Developer Starter	CD-S	für 20,8 l	102576	1	–
Bleach Fix Replenisher	P2-R	für 2 x 4 l	102099	2	2 x 114
Ready to use solution					
Super Rinse	PS-R	100 x 5 l	103152	1	100 x 20
TSC tablets					
FRSS disposable filter			103057		
Processing capacities have been rounded down.					

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