CHEMICALS FOR KODAK PROFESSIONAL BLACK-AND-WHITE FILMS

		essional	essional fessional	80000				ssional loss			Irtho	Grain Positive 5302	2		/ Duplicating SO-132	, doy			der	Packaged Liguid Concentrate	vailable		(aution Door				
	CONTINUOUS-TO	T-MAX 100 Professional	T-MAX 400 Professional T-MAX 3200 Professional	PLUS-X Pan	PLUS-X Pan Professional	Technical Pan	TRI-X Pan	TRI-X Pan Professional VERICHROME Pan	TAPAN	HIGH CONTRAST	intrast Process	STMAN Fine	Fine Grain Positive	High Speed Infrared	Professional B/W Duplicating	Rapid Process Copy	Typical Dilution (stock or concentrate:	Solution Temperatu	re Š	ickaged Ligu	Replenisher Available		Stock or Concentrate Solution in Closed		Useful Ca 8 x 10 Sheets per		
KODAK Chemicals Developer	ຮ	7	F F		1	Тe	Ĕ	<u>۴</u> ۶	l Ţ	Ŧ	ပိ	ð ⊔	Ē	Ξ	č č	E R	water)	/Time Rang	je 🖁	Ъ.		For Use In	Container (Full)	Tray/Tank	Gal/L in a Tray	Tank	
																	full strength					small or large tank, tra	6 months	24 hours/1 month	16/4	16/4*	
Developer D-76		~	~ ~	~	~	~	~	~ ~	"			~	~	~	~		1:1	-	•		•	rotary-tube, rack-and-ta	.,,	24 hours/NR	8/2	8/2	
T-MAX Developer		~	~ ~				~	~ ~	•					~			1:4			•	,	small or large tank, rotary-tube	6 months	NR/1 month	NR	16/4	
T-MAX RS Developer and Replenisher		~	<i>.</i> .		• •		~	<i>.</i> .		,							stock (working strength)			•		small or large tank, tray, rotary-tube, rack-and-tank	Indefinite (concentrate) 6 months (working strength solution)	24 hours/1 month	16/4	16/4*	
XTOL Developer		~	~ v	-			~	~ ~	•	·				~	~		full strength 1:1	65 to 75°F (18 to 24°C			•	small or large tank, tray, rotary tube	6 months	24 hours/2 months	19/5	19/5	
HC-110 Developer	1 [1:3 (A)	See instruction	s			small or large tank tre	6 months (stock)	24 hours/1 month (A)	20/5 (A)	40/10 (A)*	
Dilution A Dilution B		-	~ ~	~	~	~	~	~ ~	"		~			~	•		1:7 (B) from stock solution	packaged with produc		•	•	small or large tank, tra rotary-tube, rack-and-ta	.,,	12 hours/2 weeks (B)	10/2.5 (B)	20/5 (B)*	
MICRODOL-X	1 t	~	~	~		~	~			,							full strength		•	•			6 months	24 hours/1 month	16/4	16/4*	
Developer			~	ľ	ľ	"	~	~ ~									1:3					small or large tank, tra	NR	NR	8/2	8/2	
Developer DK-50					~		~	~	~	·				~	~.	1	full strength	-				small or large tank, tra	ay 6 months	24 hours/1 month	20/5	40/10*	
TECHNIDOL Liquid					t	~		+						-	-	t	1:1 working strength	-		•	,	small tank, tray	Indefinite	12 hours/2 weeks 1 week in full closed	10/2 12 4 x 5 sheets/qt	20/5 16 135-36 ro	
Developer Developer D-19	+	+	_		-	~	-							~	-	_	full strength		•			large tank, tray	6 months	container 24 hours/1 month	45/12	8 120 roll 60/16*	
DURAFLO RT Developer Replenisher	-	~	~ v		• •	-	~	~ ~							. .	-	See instructions packaged with Part B	80 ±0.5°F (26.5 ±0.3°(•	•		6 weeks (replenishe tank with cover)		NA	NA	
Stop Bath																								1			
Indicator Stop Bath		~			' '		~	~ ~	· •	- +	~	~	~	~	~ .	1 1	1:63	65 to 70°F (18 to 21°C		•	•	small or large tank,	Indefinite	3 days/1 month	discard when col	or changes to	
EKTAFLO Stop Bath		~	~ ~		~	~	~	~ ~	· •	·	~	~	~	~	~ •	1	1:31	30 second		•		tray, rotary-tube	Indemnie	3 days/1 monut	purplish	blue	
Fixers																											
Rapid Fixer		~	~ ~	~		~	~	~ ~		•	~	~	~	~	~ .		1:3 plus Part B (hardener)	65 to 70°F (18 to 21°C		•)	tank, tray, machine	Indefinite	1week/1month	120/32	120/32*	
Fixer		~	~ ~			~	~	~ ~		·	~	r	~	~	~ .	-	working strength see package	2 to 10 minutes	•			small or large tank, tray, rotary-tube	2 months	1week/1month	100/26	100/26	
POLYMAX T or KODAFIX Solution	1	~	<i>v</i>		• •	~	~	~ ~	• •		~	r	~	~	~ .		1:3	depending film and fix combition	er	•	•	small or large tank, tray, rotary-tube	Indefinite	1week/1month	120/32	120/32	
Washing Aid																				_	_						
Hypo Clearing Agent		~				r	~		•		~	~		~	r .		1:4 from stock solution	65 to 70°F (18 to 21°C 1 to 2 minut) •			small or large tank, tra rotary-tube, rack-and-ta	y, ank 3 months	24 hour/1 month	50–60 (12–15) wit 150–200 (35–50)	thout pre-rinse with pre-rinse	
Drying Aid																											
PHOTO-FLO Solutions (200, 600, 2100)	5	~	<i>.</i> , .			~	~	~ .				~		~	~ .	-	1:200 1:600 1:2100	65 to 70°F (18 to 21°0 30 second	C)	•	•	small or large tank, tray, rack-and-tank	Indefinite	Indefinite†			
Useful capacity can be	<u> </u>																depending on cond							NA = Not Applicable	NR = Not recon	L	

MORE INFORMATION

KODAK Chemical	Description
DEVELOPERS KODAK Developer D-76†	 For general use Yields full emulsion speed and good shadow detail with normal contrast Moderately fine grain, excellent development latitude Replenish with KODAK Replenisher D-76R For normal or push processing
KODAK T-MAX Developer	 Designed for non-replenished systems Produces enhanced shadow detail For use with roll films only For normal or push processing
KODAK T-MAX RS Developer and Replenisher*	 Recommended for replenished systems Produces enhanced shadow detail For normal or push processing of roll and sheet films
KODAK XTOL Developer	 Suitable for most professional black-and-white films Ascorbic acid developer Very high image quality at full emulsion speed Convenient, room-temperature mixing Stable performance through a range of temperatures, dilutions, and agitation methods Fine grain and high sharpness Provides more emulsion speed (shadow detail) than most developers for normal and push processing
KODAK HC-110 Developer	 Extremely versatile Can be used in both replenished and non- replenished systems Replenish with KODAK HC-110 Developer Replenisher For normal or push processing
KODAK MICRODOL-X Developer‡	 Produces fine grain and a high degree of sharpness; maximum enlargement Produces a slightly brownish image tone Replenish with KODAK MICRODOL-X Replenisher For most roll and sheet films
KODAK Developer DK-50	 Moderately fast developer that can be used straight or diluted 1 part concentrate to 1 part water Provides normal contrast, average to slightly higher than average graininess Replenish with KODAK Replenisher DK-50R

KODAK Chemical	Description
KODAK TECHNIDOL Liquid Developer	 Produces exceptionally fine grain For use with KODAK Technical Pan Films Yields a high degree of sharpness, and images with enhanced edge effect
KODAK Developer D-19	 High capacity, clean working, fast acting Provides higher than normal contrast and speed, higher than average graininess
KODAK DURAFLO RT Developer Replenisher	 Designed for roller-transport processors Replenished system Produces fine grain Long storage life Good sheet-film transport
STOP BATHS	
KODAK Indicator Stop Bath	 Non-hardening, general-purpose stop bath for use with films and papers Contains an indicator to signal exhaustion Dilute 1 part concentrate with 63 parts water
KODAK EKTAFLO Stop Bath	 A liquid concentrate with built-in color indicator to signal exhaustion Dilute 1 part concentrate with 31 parts water Also for use with paper
FIXERS	
KODAK Rapid Fixer	 A fast-acting hardening fixer For machine, tray, or tank processing Consists of two liquid concentrates: Solution A (the fixer concentrate) and Solution B (the hardener concentrate) For use with film and paper
KODAK Fixer	 A general-purpose hardening fixer for films and papers Mixes to working strength
KODAK POLYMAX T Fixer or KODAFIX Solution	 General-purpose, single-solution hardening fixer for films and papers Long life, high capacity Dilute 1 part concentrate to 3 parts water for use with film; 1 part concentrate to 7 parts water for use with paper

	KODAK Chemical	Description										
	WASHING AID											
ms I	KODAK Hypo Clearing Agent	 Promotes removal of fixer from films and fiber-base papers to shorten wash times and make washing at lower wash-water 										
g nd		 temperatures practical Dilute 1 part stock solution to 4 parts water 										
3	DRYING AID											
	KODAK PHOTO-FLO Solution	 Decreases water-surface tension Minimizes water marks and streaks on film Promotes faster, more uniform drying 										
	DIRECT POSITIVE	OUTFIT										
bath	KODAK T-MAX 100 Direct Positive Film Developing Outfit	Produces positive black-and-white slides from KODAK T-MAX 100 Professional Film and KODAK Technical Pan Film										
ion		 For use in small or large tanks and rotary- tube processors 										
	 * Use the mixed solution as a working tank solution or a replenisher. † For greater sharpness, you can use this developer diluted 1:1. Using the diluted developer requires longer development times, which may result in a slight increase in graininess. ‡ For greater sharpness, you can use this developer diluted 1:3. Using the diluted developer requires longer development times which results in increases in graininess and film speed. 											
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	http://www.kodak.com/go/professional											
ilms	Many technical support publications for KODAK PROFESSIONAL Products can be sent to your fax machine from the Kodak Information Center. Call: U.S. 1-800-242-2424, Ext. 33 / Canada 1-800-295-5531 —Available 24 hours a day, 7 days a week—											
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