				С	HEN	AIC A	ALS	FOR KODAK	PROFESS	101	IAL	. Bl	ACK-AND-W	HITE FILMS	8		
	KODAK PROFESSIONAL FILM				И												
	отмх	оотму	/ P3200TMZ	/ 125PX	0TX	OTXP	le Grain			Powder	uid Concentrate	vailable		Keeping Properties Without Use		Useful Capacity	
KODAK PROFESSIONAL Chemicals	Т-МАХ 100 / 100ТМХ	Т-МАХ 400 / 400ТМҮ	T-MAX P3200 / P3200TMZ	PLUS-X 125 /	TRI-X 400 / 400TX	TRI-X 320 / 320TXP	EASTMAN Fine Grain Positive 5302	Typical Dilution (stock or concentrate: water)	Solution Temperature/ Time Range	Packaged Pov	Packaged Liquid	Replenisher Available	For Use In	Stock or Concentrate Solution in Closed Container (Full)	Working Solution in Tray/Tank	8 x 10 Sheets per Gal/L in a Tray	Tank
DEVELOPER																	
Developer D-76	~	~	~	~	~	~	~	full strength 1:1		~		~	small or large tank, tray, rotary-tube, rack-and-tank	6 months NA	24 hours/1 month 24 hours/NR	16/4	16/4*
T-MAX Developer	~	~	~	~	~	~		1:4			~		small or large tank, rotary-tube	6 months	NR/1 month	8/2	8/2
T-MAX RS Developer and Replenisher	*	~	~	~	~	~		stock (working strength)	65 to 75°F (18 to 24°C) See instruc- tions packaged		~	~	small or large tank, tray, rotary-tube, rack-and-tank	Indefinite (conc) 6 months (work- ing tank sol)	24 hours/1 month	NR	16/4*
XTOL Developer	~	~	~	~	~	~		full strength 1:1	with product	~		~	small or large tank, tray, rotary-tube	6 months	24 hours/2 months	19/5	19/5
HC-110 Developer Dilution A Dilution B	~	~	~	~	~	~		1:3 (A) 1:7 (B) from stock solution			~	~	small or large tank, tray, rotary-tube, rack-and-tank	6 months (stock)	24 hrs/1 month (A) 12 hrs/2weeks (B)	20/5 (A) 10/2.5 (B)	40/10 (A)* 20/5 (B)*
Developer D-19								full strength		~			large tank, tray	6 months	24 hours/1 month	45/12	60/16*
DURAFLO RT Developer Replenisher	~	~	~	~	~	~		See instructions packaged with Part B	80 ±0.5°F (26.5 ±0.3C)		~	~	roller transport	6 weeks (replenishertank with cover)	6 weeks for replenisher in tank	NA	NA
STOP BATH																	
Indicator Stop Bath	~	~	~	~	~	~	~	1:63	65 to 70°F (18 to 21C) 30 seconds		~		small or large tank, tray, rotary-tube	Indefinite	3 days/1 month	discard w changes to p	hen color ourplish/blue
FIXERS																	
Rapid Fixer	~	~	~	~	~	~	~	1:3 plus Part B (hardener)	65 to 70°F (18 to 21°C)		~		tanks, tray, machine	Indefinite	1 week/1 month	120/32	120/32
Fixer	✓	~	~	~	~	~	~	working strength see package	2 to 10 minutes depending on film and fixer	~			small or large tank, tray, rotary-tube	2 months	1 week/1 month	100/26	100/26
KODAFIX Solution	~	~	~	~	1	✓	~	1:3	combination		~		small or large tank, tray, rotary-tube	Indefinite	1 week/1 month	120/32	120/32
WASHING AID																	
Hypo Clearing Agent	~	~	~	~	1	~	~	1:4 from stock solution	65 to 70°F (18 to 21C) 1 to 2 minutes	~			small or large tank, tray, rotary-tube, rack-and-tank	3 months	24 hours/1 month		15) without 150-200 h pre-rinse
DRYING AID																	
PHOTO-FLO Solution 200	~	~	~	~	~	~	~	1:200	65 to 70°F (18 to 21C) 30 seconds		~		small or large tank, tray, rack-and-tank	Indefinite	Indefinite†	_	

KODAK PROFESSIONAL Chemical	Description					
DEVELOPERS						
Developer D-76†	<ul> <li>For general use</li> <li>Yields full emulsion speed and good shadow detail with normal contrast</li> <li>Moderately fine grain, excellent development latitude</li> <li>Replenish with KODAK PROFESSIONAL Replenisher D-76R</li> <li>For normal or push processing</li> </ul>					
T-MAX Developer	<ul> <li>Designed for non-replenished systems</li> <li>Produces enhanced shadow detail</li> <li>For use with roll films only</li> <li>For normal or push processing</li> </ul>					
T-MAX RS Developer and Replenisher*	<ul> <li>Recommended for replenished systems</li> <li>Produces enhanced shadow detail</li> <li>For normal or push processing of roll and sheet films</li> </ul>					
XTOL Developer	<ul> <li>Suitable for most professional black-and-white films</li> <li>Ascorbic acid developer</li> <li>Very high image quality at full emulsion speed</li> <li>Convenient, room-temperature mixing</li> <li>Stable performance through a range of temperatures, dilutions, and agitation methods</li> <li>Fine grain and high sharpness</li> <li>Provides more emulsion speed (shadow detail) than most developers for normal and push processing</li> </ul>					
HC-110 Developer	<ul> <li>Extremely versatile</li> <li>Can be used in both replenished and nonreplenished systems</li> <li>Replenish with KODAK PROFESSIONAL HC-110 Developer Replenisher</li> <li>For normal or push processing</li> </ul>					

## Kodak

Chemicals for KODAK PROFESSIONAL Black-and-White Films KODAK Publication No. E103CF © Eastman Kodak Company 2010

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KODAK PROFESSIONAL

Chemical

Developer D-19

DURAFLO RT

STOP BATHS

FIXERS

Fixer

KODAFIX

Solution

Rapid Fixer

Indicator Stop Bath

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Developer Replen-

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Description	KODAK PROFESSIONAL Chemical	Description						
High capacity, clean working, fast acting Provides higher than normal	WASHING AID Hypo Clearing	Promotes removal of fixer from						
contrast and speed, higher than average graininess Designed for roller-transport processors Replenished system	Agent	<ul> <li>films and fiber-base papers to shorten wash times and make washing at lower wash-water temperatures practical</li> <li>Dilute 1 part stock solution to 4 parts water</li> </ul>						
Produces fine grain Long storage life	DRYING AID							
Good sheet-film transport	PHOTO-FLO 200 Solution	Decreases water-surface     tension						
Non-hardening, general- purpose stop bath for use with films and papers Contains an indicator to signal		<ul> <li>Minimizes water marks and streaks on film</li> <li>Promotes faster, more uniform drying</li> </ul>						
exhaustion	DIRECT POSITIVE O	UTFIT						
Dilute 1 part concentrate with 63 parts water A fast-acting hardening fixer	T-MAX 100 Direct Positive Film Devel- oping Outfit	<ul> <li>Produces positive black-and-white slides from KODAK PROFESSIONAL T-MAX 100 Film</li> <li>For use in small or large tanks and rotarytube processors</li> </ul>						
For machine, tray, or tank processing Consists of two liquid concentrates: Solution A (the fixer concentrate) and Solution B (the hardener concentrate)	<ul> <li>* Use the mixed solution as a working tank solution or a replenisher.</li> <li>† 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.</li> </ul>							
For use with film and paper A general-purpose hardening fixer for films and papers Mixes to working strength	Note: To obtain consistent results from Kodak powdered chemi- cals, mix the full volume marked on the package. Kodak supplies powdered photographic chemicals in a variety of sizes that make it easy to choose the volume you need. Therefore, we do not rec- ommend mixing smaller-than-package-size amounts of pow- dered KODAK Processing Chemicals. For the latest version of technical support publications for KODAK PROFESSIONAL Products, visit Kodak on-line at: http://www.kodak.com/go/professional							
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								
	If you have questions about KODAK PROFESSIONAL Products, call Kodak. In the U.S.A.:							

- 1-800-242-2424, Ext. 19, Monday-Friday
- 9 a.m.-5 p.m. (Eastern time)

## In Canada:

1-800-465-6325, Monday–Friday 8 a.m.-5 p.m. (Eastern time) In other regions of the world, check with Kodak in your country.