						Chemicals for K	ODAK PROF	ES	SIC	NAL Black-and-	White Films			
	KODAK PROFESSIONAL Film													
	TMX	ТМУ	P3200TMZ	×	TXP				Concentrate			g Properties hout Use	Useful Capacity	
KODAK PROFESSIONAL Chemicals	T-MAX 100 / 100TMX	T-MAX 400 / 400TMY	T-MAX P3200 / P3200TMZ	TRI-X 400 / 400TX	TRI-X 320 / 320TXP	Typical Dilution (stock or concentrate: water)	Solution Temperature/ Time Range	Packaged Powder	Packaged Liquid Concentrate	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	1	1	✓	✓	1:4	65 to 75°F		1	small or large tank, rotary-tube	6 months	NR/1 month	8/2	8/2
T-MAX RS Developer and Replenisher	1	~	~	1	~	stock (working strength)	(18 to 24°C) See instructions packaged with product		√	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		✓		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)
STOP BATH														
Indicator Stop Bath	~	~	~	~	~	1:63	65 to 70°F (18 to 21°C) 30 seconds		1	small or large tank, tray, rotary-tube	Indefinite	3 days/1 month	discard w changes to p	hen color urplish/blue
FIXERS														
Rapid Fixer	✓	✓	✓	✓	✓	1:3 plus Part B (hardener)	65 to 70°F		✓	tanks, tray, machine	Indefinite	1 week/1 month	120/32	120/32
Fixer	1	✓	~	✓	✓	working strength see package	(18 to 21°C) 2 to 10 minutes depending on	✓		small or large tank, tray, rotary-tube	2 months	1 week/1 month	100/26	100/26
KODAFIX Solution	✓	✓	✓	✓	✓	1:3	film and fixer 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 21°C) 1 to 2 minutes	1		small or large tank, tray, rotary-tube, rack-and-tank	3 months	24 hours/1 month) without pre- 50-200 th pre-rinse
DRYING AID														
PHOTO-FLO Solution 200	~	~	~	~	~	1:200	65 to 70°F (18 to 21°C) 30 seconds		~	small or large tank, tray, rack-and-tank	Indefinite	Indefinite†	_	

^{*} Useful capacity can be increased by replenishment. † Keeping properties will vary depending on conditions of use. NA = Not applicable NR = Not recommended

KODAK PROFESSIONAL Chemical	Description					
DEVELOPERS						
Developer D-76†	 For general use Yields full emulsion speed and good shadow detail with normal contrast Moderately fine grain, excellent development latitude For normal or push processing 					
T-MAX Developer	 Designed for non-replenished systems Produces enhanced shadow detail For use with roll films only For normal or push processing 					
T-MAX RS Developer and Replenisher*	 Recommended for replenished systems Produces enhanced shadow detail For normal or push processing of roll and sheet films 					
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 PROFESSIONAL Chemical	Description
HC-110 Developer	Extremely versatile Can be used in both replenished and nonreplenished systems Replenish with KODAK PROFESSIONAL HC-110 Developer Replenisher For normal or push processing
STOP BATHS	
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
FIXERS	
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
Fixer	A general-purpose hardening fixer for films and papers Mixes to working strength
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 PROFESSIONAL Chemical	Description				
WASHING AID					
Hypo Clearing Agent	 Promotes removal of fixer from films and fiber-base papers to shorten wash times and make washing at lower wash-water temperatures practical Dilute 1 part stock solution to 4 parts water 				
DRYING AID					
PHOTO-FLO 200 Solution	Decreases water-surface tension Minimizes water marks and streaks on film Promotes faster, more uniform drying				

^{*} Use the mixed solution as a working tank solution or a replenisher.

Note: To obtain consistent results from KODAK powdered chemicals, mix the full volume marked on the package. Kodak Alaris supplies powdered photographic chemicals in a variety of sizes that make it easy to choose the volume you need. Therefore, we do not recommend mixing smaller-than-package-size amounts of powdered KODAK Processing Chemicals.

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TM/MC/MR: D-76, HC-110, Photo-Flo, T-Max, Xtol

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[†] 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.