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THE FORMULARY GUARANTEE

Satisfaction guaranteed!

Photographers' Formulary guarantees its chemicals, kits, and products.
If for any reason you are ever dissatisfied with a Formulary product,
call us toll-free within 30 days of your order and we'll gladly resolve
the problem.

GENERAL INFORMATION

Thank you for requesting a catalog from Photographers' Formulary. We hope this catalog and price list will be of help to you in your photographic endeavors.

For the creative photographer, darkroom enthusiast, and professional photographer THE FORMULARY provides options for photographic work you have heard about, but until now you didn't know these options were available in easy to use kits.

To help expand your possibilities for photographic creativity and excellence, we offer bulk chemicals (over 200 in stock) in any quantity, plus "classic" formulas and printing processes, and kits for the most up-to-date film emulsions for holography and T-grain.

THE FORMULARY strives to maintain prompt service, competitive prices, and above all, quality and consistency in all our products.

We feel the options we offer will benefit your photographic endeavors, and hope to do business with you soon.

Best regards,

Bud & Lynn Wilson

P.S. Photographers Formulary wants you as a customer! **If you order within the next 15 days we will give a 10% discount on your first order.** The discount does not apply to sale items or shipping charges. Just fill out the enclosed order form, indicate method of payment and mail today, or call on our toll free number, telling us you want your new customer discount.

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Photographers' Formulary guarantees its chemicals, kits, and products. If for any reason you are ever dissatisfied with a Formulary product, call us toll-free within 30 days of your order and we'll gladly resolve the problem.

OUR 35th YEAR



- **HOURS:**

Photographers' Formulary is open Mon. – Fri. 7:30 A.M. – 4:30 P.M. Mountain standard time. We will accept orders during these hours on our toll free number:

1-800-922-5255

- **TERMS:**

The Formulary will accept Visa, MasterCard, American Express, or Discover, for phone-in orders. We also accept personal checks or money orders for mail-in orders.

We accept purchase order numbers from Government agencies or Public Schools. Terms of sale are net 30 days from date of invoice.

- **PRICES AND DISCOUNTS:**

Prices are effective the date shown on the price sheets. We endeavor to maintain the prices in this catalog, however **PRICES MAY CHANGE WITHOUT NOTICE.** You may call on our toll free number to verify prices. All our chemicals are prepackaged in 10 grams, 100 grams, and 1 pound packages. You may order in any multiple of these packages or if you have need for an odd amount we will do special scaling for an additional fee of \$1.50 per unit. There is no minimum order value. Every order is welcome.

When you order 5 pounds of a single pack bulk chemical you will receive a 10% discount. Single packs of 10 pounds or more receive a 25% discount. This discount does not apply to bulk chemicals on our prices sheet listed at 5#, 10#, 20#, or 50#. They are pre-discounted at more than the amounts stated above.

- **BULK QUANTITIES:**

Many of the items in this catalog are available in bulk. On such purchases, significant reductions in cost are available. If you should require larger than catalog quantities, phone or write for a special quotation. We think you will be pleased.

- **SPECIAL PACKAGING:**

Where special packaging is required for hazardous items and/or certain export and dangerous goods forms are required, there will be an additional charge for such services.

- **KIT INFORMATION:**

When ordering any kit from the Formulary you will receive all the chemicals required for that process, paper is **not** included. Each kit comes with full instructions and chemical warnings. Quantity on each kit refers to the working solution the kit will make.

Whenever you see gallons mentioned, these are an approximate measure as liters do not convert to gallons exactly.

Whenever "rolls of film" is mentioned we are referring to a 36 exposure roll of 35mm film, "sheet film" refers to 4x5 size unless otherwise stated.

- **SHIPPING POLICIES:**

We ship all orders within 24 hours, with some exceptions. DOT regulations govern shipments within the United States. We suggest where possible that you use United Parcel Service. We reserve the right to change an instructed method of shipment to comply with lawful shipping regulations.

We also offer UPS 2-Day air service, UPS 3-Day Select, and Priority Mail.

Shipments to Alaska or Hawaii: Regulations prohibit the shipment of many hazards to the above states. UPS delivery is limited to specific population centers. Many chemicals can be shipped via the USPS. Air Mail rates are less than UPS Blue Label rates.

Shipments outside the United States: Regulations prohibit the shipment of hazards and some chemicals outside the U.S. We recommend you call, fax, e-mail or write the Formulary to verify shipping of your order. All orders leaving the U.S. will be insured at your expense.

- **RETURNS:**

Return shipments will NOT be accepted unless we have given our prior permission and complete shipping instructions. We will do our best to be cooperative and be fair.

- **USE:**

All of our chemicals are offered for laboratory use only. They are not for drug, household or other uses. This means they:

- may NOT be used as drugs
- may NOT be used as cosmetics
- may NOT be used as food additives
- may NOT be used as household additives
- may NOT be used as agricultural or pesticidal products.

Since we cannot be certain of your application of our chemicals, we offer no warranties regarding use, handling of the products, or handling of the container itself, and will not be responsible for any loss involving their use.

The user assumes all risks upon accepting any chemicals or kits from the Formulary. If for any reason you do not wish to assume all risks, return the chemicals within 30 days for a full refund.

**The Formulary recommends
distilled water for
all solutions!**

- **TABLE OF TRADE MARKS**

The following products are trademark names of Kodak Corp.:

- ◇ FILMS; TMAX, TECHNICAL PAN, PLUS X, TRI X
- ◇ DEVELOPERS; D-1, D-12, D-23, D-76, DEKTOL, SELECTOL, SELECTOL SOFT
- ◇ REDUCERS; R-4A, R-4B
- ◇ INTENSIFIERS; IN-5
- ◇ TONERS; GP-1, T-8, T-21
- ◇ C-41 DEVELOPER

The following products are trademark names of Ilford Corp.:

- ◇ ID-3, CIBACHROME II PAPER CRC.44M, CIBACHROME II DELUXE CPS1K, CIBACHROME II DISPLAY FILM CTD.F7.

HOLOTEST 8E75HD, and PORTRIGA are trademark names of Agfa Film.

The following products are trademark names of Ansco Company:

- ◇ ANSCO 45, ANSCO 70, ANSCO 113, ANSCO 115, ANSCO 120, ANSCO 241, ANSCO 311.

CRONE C is a trademark name of Ethol Chemical Co.

PHOTOFINISH is a trademark names of Marblehead Labs.

**All chemicals are
hazardous and
MUST be kept away
from children.**

**Please consult with local sewer and water
authorities regarding disposal of photographic
chemicals in your area.**

FILM DEVELOPERS

Photographers' Formulary offers a variety of black-and-white film developers in kit form. This group is comprised of specialty developers as well as general purpose developers. The large selection of developers is intended to provide alternatives and solutions for most film-developing problems.

FORMULARY UNIVERSAL CONCENTRATE is an economical hydroquinone-Phenidone developer, which gives good contrast in films. The chemicals are used to prepare a stock solution which is diluted 1:19 for film. This developer is also an excellent paper developer, providing neutral tones, deep blacks and a pleasing tonal gradation. The stock solutions are usable for 4 to 5 months after mixing; the working solutions are one shot. A 1 liter kit is used to make 5 to 20 liters of working solution depending upon dilution's used.

To Make a Working Solution	Cat. No.	Price
5-20 liters	01-0020	\$13.55

FORMULARY FILM DEVELOPER 3 is a soft working metal based developer that is similar in composition to Ilford ID-3. Developer 3 is capable of producing negatives with an excellent tonal range with sharpness and grain comparable to those obtained using D-76. Developer 3 can be used as either a single bath developer or as a two bath semi-compensating developer. Directions for both types of usage are given in the instructions. The stock solutions have a shelf life of 6 months and will make up to 10 liters of working solution depending on the dilution's. The working solution is a one shot developer.

To Make a Working Solution	Cat. No.	Price
10 liters (2.5 gal)	01-0030	\$13.45

FORMULARY SUBSTITUTE FOR D-19 is a published formula originally designed for use with X-ray materials and is now recognized as an excellent developer for aero films and plates when high contrast is desired. Compared with Kodak D-76, Formulary D-19 produces negatives with high contrast, slightly larger grain size and a small decrease in sharpness. The life of this developer is in excess of 1 year and will not stain tanks or trays.

To Make a Working Solution	Cat. No.	Price
1 liter kit	01-0035	\$11.95

FORMULARY FILM DEVELOPER 23 is a metal-based semi-compensating film developer similar to Kodak D-23. The developer produces negatives with low to medium contrast. Developer 23 is the favorite of Zone System users. Four rolls of film can be processed in 1 liter of Formulary 23 without replenishment. With replenisher (Formulary DK-25R, 01-0057) a total of 20 to 25 rolls of film per liter can be developed. The chemicals in this kit are used to make a working solution with a shelf life of 6 months.

To Make a Working Solution	Cat. No.	Price
1 liter kit	01-0040	\$8.95
2 liter kit	01-0050	\$12.45
4 liter kit	01-0051	\$15.95

FORMULARY D-25 FINE GRAIN FILM DEVELOPER is a fine-grain film developer that contains metal and a mild silver solvent, sodium Metabisulfite. The grain obtained with D-25 resembles that obtained with Developer 12, however, D-25 contains metal rather than the toxic p-Phenylenediamine found in Developer 12. Contrast is normal with D-25, but softness may result. D-25 is reputed to be a non-staining developer; however, staining and dichroic fog have been reported with modern fine-grain films. (Continued next column)

FORMULARY D-25 FINE GRAIN FILM DEVELOPER

Therefore, the developer should be tested with your current film before this developer is used extensively. The chemicals in this kit are used to prepare a working solution that has a shelf life of two months. A liter of working solution that has a shelf life of two months. A liter of working solution is used to process 4 rolls of film. The capacity is extended to 25 rolls per liter by using the replenisher, Formulary DK-25R

To Make a Working Solution	Cat. No.	Price
1 liter	01-0053	\$10.95
2 liter	01-0054	\$13.95
4 liter	01-0055	\$17.95

FORMULARY DK-25R is used to extend the capacity of D-23 or D-25 from 4 to 25 rolls per liter. As a developer is used, its action is weakened by both the chemical reduction of the exposed silver halides in the emulsion and by the release of bromide ions into the solution. The net result or reduced developer activity are reduction in the effective film speed and lower contrast. Adding replenisher ensures normal developer activity and partially counteracts the effects of the increased bromide concentration. The shelf life of the replenisher solution is six months.

To Make a Working Solution	Cat. No.	Price
1 liter	01-0057	\$10.75

TECH PAN FILM DEVELOPER

FORMULARY TD-3 TECHNICAL PAN FILM DEVELOPER

An original formulation by William Troop, is a unique, non-Phenidone based film developer offered exclusively by the Formulary. This developer, when used to process Kodak Technical Pan yields negatives with unique clarity, high acutance, and superlative low contrast gradation. With TD-3 development there is a true increase with most developers. The combination of Tech Pan film and TD-3 allows grain less 16x20 prints to be made. An average of 20 rolls of film can be developed with the small kit, 80 with the medium size kit and 120 with the large kit. The shelf life of the stock solutions is one year, the working solution is used only once. Shipped as a liquid concentrate.

To Make a Working Solution	Cat. No.	Price
10 liters (2.5 gal)	01-0065	\$12.95
20 liters (5 gal)	01-0066	\$16.95
40 liters (10 gal)	01-0067	\$24.95

PHENIDONE EXTENDED RANGE DEVELOPER (POTA) is a very soft-working Phenidone-based developer. With low-speed films, POTA is capable of recording 15 to 20 stops of exposure range. When used on fine grain, high contrast copy films, POTA produces negatives with near normal contrast and extremely fine grain. Enlargements of 20-30 times are possible. This kit makes 1 liter of working solution which has a shelf life of only 1 hour.

To Make a Working Solution	Cat. No.	Price
1 liter	01-0070	\$8.95

FORMULARY MODIFIED POTA (DELAGI #6) was formulated by Dick Delagi and is designed for Kodak Technical Pan Film. This developer produces negatives with normal contrast and extremely fine grain. These negatives can be enlarged 25 times without noticeable grain in the print. Modified POTA gives better tonal separations with slightly higher contrast than regular POTA. Film speed is ISO 50-80. The kit makes 1 liter of working solution which has a life of 1-2 hours.

To Make a Working Solution	Cat. No.	Price
1 liter	01-0075	\$11.95

FORMULARY FX-1 HIGH ACUTANCE FILM DEVELOPER is a metol-based film developer, which contains a small amount of potassium iodide. Developer FX-1 produces high-resolution, fine grain negatives, which are suitable for a high degree of enlargement. Normal contrast can be obtained using regular films. Contrast is easily controlled by adjusting the development time. This developer is probably the sharpest developer ever formulated for films from ISO 25-200. Chemicals in this kit are used to make two stock solutions that when diluted will yield 10 liters of working solution with a shelf life of about six months.

To Make a Working Solution	Cat. No.	Price
10 liters (2.5 gal)	01-0080	\$16.75

FORMULARY FX-2 HIGH ACUTANCE FILM DEVELOPER produces negatives with a high degree of sharpness and normal grain with the capability of interesting internal effects. Due to the greater definition obtainable with FX-2, grain is less apparent than with D-76. Compared with FX-1, FX-2 produces negatives with finer grain and less acutance, but both have distinctly different pleasing effects. FX-2 used as a stand developer for one hour produces the most interesting internal contrast effects of the FX developers.

To Make a Working Solution	Cat. No.	Price
10 liters (2.5 gal)	01-0085	\$17.95

FORMULARY TFX-2 HIGH DEFINITION DEVELOPER TFX-2 is an updated proprietary modification of the popular FX-2 developer. A number of small modifications have been made to gain better performance with the most modern films including the T-grain films. TFX-2 offers an extremely high degree of sharpness, which is at least as great as the Beutler developer, although somewhat less than FX-1. However, gradation with TFX-2 is much more pleasing than with either Beutler or FX-1. TFX-2 offers a speed increase between one half and one full stop and has an exceptional resistance to streaking. This is one of the most versatile film developers on the market today. By varying dilution, agitation and development time an extremely wide variety of contrast effects can easily be obtained. The stock solution will make up to 10 liters depending upon the dilution used, and has a shelf life of 1 year in a full well-capped bottle. The working solution is a one shot developer with a life of a few hours. Shipped as a liquid concentrate.

To Make a Working Solution	Cat. No.	Price
10 liters (2.5 gal.)	01-0090	\$14.85
20 liters (5.25 gal.)	01-0091	\$22.95
40 liters (10.5 gal.)	01-0092	\$36.75

FORMULARY WINDISCH CATECHOL FILM DEVELOPER is a Catechol-based compensating film developer and produces low to normal contrast negatives, fine grain, and high resolution.

(Continued in the next column)

FORMULARY WINDISCH CATECHOL FILM DEVELOPER

(continued from the previous column)

With normal film, it is possible to record a range of 15 stops. Results are similar to and slightly better than those obtained with POTA. In addition, the negatives contain more contrast. A decrease of 0.5 to 1 stop in film speed can be expected. The chemicals in the kit are used to make two stock solutions. They are diluted 5:3:200 to make the working solution, which is used once then discarded. A 1 liter kit yields 40 liters of working solution. The shelf life of solution A is six months, and Solution B has a life of 1 month. Two packages to make Solution B are included in the kit.

To Make a Working Solution	Cat. No.	Price
Up to 40 liters (10 gal.)	01-0100	\$16.95

FORMULARY MODIFIED WINDISCH CATECHOL FILM DEVELOPER, formulated by William Troop, contains the same chemicals as Windisch Pyrocatechin but in different amounts. It works especially well with Kodak Technical Pan film giving extremely fine grain, high resolution, and normal contrast. A very high degree of enlargement is possible. Tech Pan film should be exposed between 64-125 ASA for use with this developer. The kit chemicals make two stock solutions that are diluted 5:3:200 to make 40 liters of working solution. The shelf life of Solution A is six months. Solution B has a life of one month. Two packages of chemicals to make Solution B are included in the kit.

To Make a Working Solution	Cat. No.	Price
up to 40 liters (10 gal.)	01-0105	\$11.95

FORMULARY DEVELOPER 50 (DK-50) is a moderately fast developer for commercial and sheet sizes of Plus-x, and Pan professional films. The developer produces negatives with normal contrast, average to slightly higher than average graininess. May use without dilution.

To Make a Working Solution	Cat. No.	Price
1 liter	01-0110	\$9.95
4 liters	01-0112	26.95

Replenisher	Cat. No.	Price
1 liter	01-0115	\$9.95

FORMULARY ABC PYRO FILM DEVELOPER is a classic formula that uses Pyrogallol as the developing agent and is similar to Kodak D-1 and Ansco 45, Formulary ABC Pyro is designed for large format use and produces negatives with normal to low contrast. The grain is low, and acutance high. The negatives have beautiful scale and gradation; however, there is a loss of about 1/2 stop in film speed. The chemicals in the kit are used to make three stock solutions which are combined and diluted to make the working solution. A 1 liter kit yields 10 liters of working solution. The shelf life of the stock solutions is six months. The working solution is used once then discarded.

To Make a Working Solution	Cat. No.	Price
5 liters	01-0120	\$22.95
10 liters (2.5 gal.)	01-0130	\$32.95

WIMBERLEY'S W2ED PYRO-METOL FILM DEVELOPER is a Pyrogallol-metol film developer that produces medium-grain negatives with high acutance and normal to lower than normal contrast. Results are similar to Formulary ABC Pyro but without loss of film speed. The chemicals in the kit are used to make two stock solutions which are diluted 1:1:15 for sheet film or 1:1:20 for roll film. (Continued on the next page)

WIMBERLEY'S WD2D PYRO-METOL FILM DEVELOPER

17 to 22 liters of working solution can be prepared from the stock solutions. The shelf life of the stock solution is six months. The working solution is used once and discarded.

To Make a Working Solution	Cat. No.	Price
8 liters	01-0140	\$16.95
16 liters (4 gal.)	01-0150	\$27.95

WIMBERLEY'S WD2D+ PYRO-METOL FILM DEVELOPER

is a Pyrogallol/Metol/Sodium Carbonate developer formulated by photographer John Wimberley for spectacular results with current black and white negative films. An update of his classic WD2D formula, this new developer maximizes the beneficial effects of pyrogallol to produce negatives that are easy to print and display the following beneficial characteristics: • Greatly enhanced acutance due to edge effects at tonal boundaries • A very smooth, long tonal scale • Unmatched tonal separation, especially in highlights • Hardening of the film emulsion, reducing susceptibility to scratching • Fine, unobtrusive grain. Because of its special spectral characteristics, a WD2D+ negative may be printed on either gelatin/silver or platinum/palladium paper. The emulsion of WD2D+ negatives contains a yellow-orange colored dye mask, traditionally called "stain", that is proportional to the density of the silver image. This mask has the effect of raising the contrast of the negative beyond the level produced by the silver image alone. This means that negatives can be developed to significantly lower silver densities, resulting in finer grain and higher sharpness than is possible with conventional developers. When printing on variable contrast papers, this yellow-orange mask avoids the loss of contrast caused by the greenish color produced by some other pyrogallol developers. The full color density of the mask is achieved during development, making an alkaline after-bath and extended washing time unnecessary. WD2D+ consists of two Stock Solutions, A and B, which are diluted with water just before use. It is a one-shot developer, meaning that each batch of Working Solution is used only once.

To Make a Working Solution	Cat. No.	Price
50 liters	01-0155	\$27.45
25 liters	01-0156	16.45
50 liters (dry)	01-0158	27.45

FORMULARY AMIDOL FILM DEVELOPER is designed for water-bath development of sheet film. Water-bath processing gives excellent separation of shadows and middle-tones while reducing the total contrast. Negatives have medium grain with good sharpness. The chemicals in this kit are used to make 1 liter of working solution which has a 2-3 hour life.

To Make a Working Solution	Cat. No.	Price
1 liter	01-0190	\$12.35

FORMULARY MCM-100 FILM DEVELOPER contains Catechol and p-Phenylenediamine. MCM-100 produces extremely fine-grain negatives with good sharpness and superb tonal gradation. It is recommended for Tri-X, TMAX and HP5 films; however, it is also excellent with slower films. The contrast can be controlled by development time. The chemicals in the kit will make a working solution with a capacity for six rolls of film. The shelf life of the working solution is six months.

To Make a Working Solution	Cat. No.	Price
1 liter	01-0200	\$16.40
2 liter	01-0201	\$24.15

FORMULARY FILM DEVELOPER 12 is equivalent to Edwal 12, and is an excellent fine grain film developer that gives full emulsion speed, a full contrast range and superb sharpness. The developer contains p-Phenylenediamine, glycin and metol as the active agents. Developer 12 is not a compensating developer. The negatives are brilliant rather than flat in appearance. Developer 12 reproduces flatter scenes better than other film developers and as a consequence, it is an excellent developer for copying or reproducing negatives. The chemicals in the kit are used to make a working solution with a shelf life of two months.

To Make a Working Solution	Cat. No.	Price
1 liter	01-0210	\$15.50
2 liter	01-0211	20.65

FORMULARY TD-16; IMPROVED D-76 is formulated to duplicate working characteristics of Kodak D-76 precisely. D-76 is probably the most popular black and white developer in the world. It offers optimum balance of speed, fine grain, high sharpness, and good gradation. One important way TD-16 differs from D-76 is consistent results. The pH of D-76 can rise considerably, and contrast is greatly increased. We have worked out a proprietary modification of D-76 that maintains all its desirable working characteristics over a period of six months. To make 2 liters of working replenisher, use catalog number 01-0273.

To Make a Working Solution	Cat. No.	Price
1 - 4 liters	01-0270	\$7.95
4 - 16 liters (1 - 4 gal.)	01-0271	11.45
8 - 32 liters (4 - 8 gal.)	01-0272	15.95

FORMULARY TD-16R REPLENISHER functions identically to D-76R, except that it is much more consistent in use. D-76R if mixed too vigorously and stored, shows a significant rise in contrast. This is eliminated in TD-16 or TD-16R. Otherwise image quality, grain and speed remain the same.

To Make a Working Solution	Cat. No.	Price
1 liter	01-0273	\$8.95

FORMULARY DIVIDED D-76 FILM DEVELOPER is an economical metol-hydroquinone film developer. Films developed in Divided D-76 have normal grain, good sharpness, and excellent tonal gradation. This developer is a two bath compensation developer. The chemicals in the Divided D-76 are used to prepare two working solutions. The film is placed in solution A for 3 minutes, and then in solution B for 2-4 minutes, depending on the film and contrast desired. Solution A contains the developing agents, and solution B contains the alkali. Development begins when the film is placed in solution B and lasts until the developing agents retained on the film back are exhausted. This method of development holds back the highlights and brings out the shadow detail. The film speed is not reduced. The shelf life of solution A is 2 months, and solution B is a one shot solution.

To Make a Working Solution	Cat. No.	Price
1 liter	01-0300	\$10.25
2 liters	01-0302	12.95
4 liters	01-0304	16.75

FORMULARY BW-2 T-MAX DEVELOPER is unique, giving the TMAX film the sharpness it was meant to have. BW-2 allows you to have contrast control other developers do not give by using a different balance of the two solutions. (Continued on the next page)

FORMULARY BW-2 T-MAX DEVELOPER Continued

BW2 is a proprietary formula developed by Bill Wilson of Photographers' Formulary. Do to its popularity, this kit comes pre-bottled as a liquid stock solution for your convenience. The working shelf life of 1 week. The concentrate will keep for 1 year if kept tightly capped.

To Make a Working Solution	Cat. No.	Price
2.5 liters	01-0500	\$9.95
5 liters	01-0505	14.75
10 liters (2.5 gal.)	01-0508	21.95
20 liters (5 gal.)	01-0510	28.95

REVERSAL PROCESS FOR T-MAX FILM is the formula developed by Hans F. Dietrich and appeared in the March/April 1988 issue of Darkroom Techniques. The T-MAX reversal process allows black and white slides to be made from T-MAX 100 or 400 black and white negative film. The reversal process will produce excellent positives from one to two stops higher with the same development time; however negatives will be a thin positive. The kit makes five solutions (2 developers, bleach and a clearing bath). This kit will develop 4 rolls of film.

To Make a Working Solution	Cat. No.	Price
to develop 4 rolls of film	01-0600	\$28.75

FORMULARY BW-44 LIQUID FILM DEVELOPER was formulated because of the calls the Formulary had been receiving for liquid pre-mixed formulas for film, paper, and fixing. We feel that the BW-44 is a very good developer with all films. The life of the stock solutions is 1 year in tightly capped bottles. This formula uses A & B stock solutions. You can expect to get 10-15 rolls of film per liter of developer at a 1:1:5 dilution. The working solution has a life of 2 weeks. BW-44 is a high capacity developer and very suitable for large or small format. This formula should give the very best in shadow detail and sharp highlights. You can vary the dilutions from 1:1:1 up to 1:1:20.

To Make a Working Solution	Cat. No.	Price
5 liters (1.25 gal.)	01-0800	\$9.95
10 liters (2.5 gal.)	01-0810	12.95
20 liters (5 gal.)	01-0811	17.95
40 liters (10 gal.)	01-0812	26.95

FORMULARY KODALITH DEVELOPER is a high-contrast hydroquinone developer, that produces dense blacks, clear highlights, and sharp edge separation similar to Ansco 70. The kit contains chemicals to make 2 stock solutions that are mixed 1:1 to make the working solution. Solution A is stable for six months, and solution B lasts one month. Enough chemicals for 2 batches of solution B are included.

To Make a Working Solution	Cat. No.	Price
2 liters	01-1300	\$15.95
4 liters	01-1330	18.50
8 liters	01-1350	22.95

PYRO TRIETHANOLAMINE FILM DEVELOPER is a formula published in Petersen's Photographic, July 1984 issue. Written by Paul Farber, the demand was so great for this developer, we made the kit with permission. Mr. Farber stated in his article that this developer was intended for the production of large negatives, but has also proved exceptionally good on small format. It has smooth grain structure and full emulsion-speed capability. (Continued in the next column)

PYRO TRIETHANOLAMINE FILM DEVELOPER Continued

It lasts longer than other developers and can be replenished just by adding fresh developer to make up the lost volume, and this can go on for years.

To Make a Working Solution	Cat. No.	Price
8 liters	01-5000	\$25.95

BARRY THORNTON'S EXACTOL LUX FILM DEVELOPER is a unique developer of special interest to artists and photographers wishing to produce monochrome fine prints, is from the same stable as *DiXactol Ultra*, and has the same distinguishing characteristics. Clean working; it produces the fullest palette of richly graduated tones, especially in the holding of translucent and delicately drawn highlights particularly resistant to 'blocking up' at high exposure levels. At the same time, shadow detail and separation are nursed up to unusual levels. Printing is likely to need significantly less burning in, in landscape skies, for instance, and graduation is likely to be markedly superior in these burned-in areas. Discriminating workers appreciating the fine separation of tones should find this a fulfilling developer.

To Make a Working Solution	Cat. No.	Price
10 liters	01-5005	\$16.95

PRESCYSOL FILM DEVELOPER is a specially formulated developer unsurpassed in its ability to provide superb negatives with extremely fine grain, remarkably high sharpness, smoothly graduated tones and delicate and translucent highlights. *Prescysol* yields full film speed; you can expose at the makers recommended ISO. *Prescysol* is a tanning and staining developer.

Working Solution	Cat. No.	Price
10 liters	01-5010	\$15.95

PRESCYSOL EF FILM DEVELOPER is a specially formulated developer unsurpassed in its ability to provide superb negatives with extremely fine grain, the highest available sharpness, smoothly graduated tones and delicate and translucent highlights. *PRESCYSOL EF* is a tanning and staining developer. As the developer is absorbed, the emulsion is tanned, or hardened, and this hardening is variable, being greater in areas of greater exposure.

Working Solution	Cat. No.	Price
10 liters	01-5015	\$15.95
50 liters	01-5016	39.95

DIXACTOL is a unique developer of special interest to artists and photographers producing monochrome fine prints, yet it is also uniquely tolerant and easy to use. It has four main distinguishing characteristics. It produces the fullest palette of richly graduated tones, especially in the holding of translucent and delicately drawn highlights particularly resistant to "blocking up" at high exposure levels. At the same time, shadow detail and separation is nursed up to unusual levels.

Description	Cat. No.	Price
10 liters	01-5030	\$19.95
10 liters B Solution only	01-5031	\$19.95

DIXACTOL ULTRA is a unique developer of special interest to artists and photographers producing monochrome fine prints, yet it is also uniquely tolerant and easy to use. It has four main distinguishing characteristics. It produces the fullest palette of richly graduated tones, especially in the holding of translucent
Continued

DIXACTOL ULTRA® Continued

and delicately drawn highlights particularly resistant to "blocking up" at high exposure levels. At the same time, shadow detail and separation is nursed up to unusual levels. Printing is likely to need significantly less burning in, in landscape skies for instance, and graduation is likely to be markedly superior in these burned-in areas.

Description	Cat. No.	Price
10 liters	01-5035	\$19.95
10 liters B Solution only	01-5036	\$19.95

PMK FORMULA

The PMK formula was developed by Gordon Hutchings, and is designed as a universal developer for a wide variety of modern emulsions used under diverse conditions. PMK stands for "Pyro-Metol-Kodalk". Kodak has changed the name Kodalk™ to Balanced Alkali™ - this is their proprietary name for sodium metaborate. The formula is constituted to achieve the best overall results in consideration of the following technical criteria: sharpness, maximum image stain, minimum general stain, edge effects, film speed, flexibility for Zone System Plus and Minus development, stability, repeatability, convenience of use and long shelf-life. An alkaline fixer solution such as TF-4 (see page 11) is recommended for achieving maximum pyro stain on the negative. A conventional rapid fix may diminish staining effects of pyro and PMK formula. The PMK formula consists of two stock solutions. The "A" stock is the developer agents and the "B" stock is the alkali, or accelerator.

To Make a Working Solution	Cat No.	Price
25 liters	01-5045	\$18.95
50 liters	01-5050	30.95
50 liters Pre-mixed	01-5060	\$30.95

SPECIAL!

Purchase both our PMK Kit (Dry or Liquid) and Gordon Hutchings outstanding **Book or Pyro** (see above), and get a \$5.00 discount!

Description	Cat. No.	Price
Dry Kit 01-5050 & Book 08-0080	01-6000	\$57.90
Liquid Kit 01-5060 & Book 08-0080	01-6005	\$79.90

ABC PLUS PYRO (ROLLO PYRO) is a formula developed by Harold Leban specifically for rotary processing in Jobo® equipment or BTZS® tubes. Thanks to Carl Weese for his painstaking testing and allowing us to use his information in our instruction sheets. The testing was done on several hundred negatives under a wide range of lighting conditions, being developed in Jobo® Expert drums. The results were clean negatives that can be processed in fairly short times at a relatively low (70°F) temperature in a single batch of chemistry. This formula however does not perform well in tray development because it produces a strong silver image with very little stain.

To Make a Working Solution	Cat. No.	Price
33 liters	01-5070	\$23.00

DI #13 BY PHIL DAVIS This developer is ideal for subjects from normal (7-stop) to extremely long (10+ stops) range when increased shadow contrast and reduced mid-tone contrast are desired. It has been formulated specifically to take advantage of the unique characteristics of Kodak T-Max 100 film and is not recommended for use with any other film material. DI #13 provides low to very low contrast with excellent shadow detail, while maintaining relatively high film speed. Not recommended for expansion development.

To Make a Working Solution	Cat. No.	Price
5 liters	01-5075	\$19.95

HARVEY'S DEFENDER 777 seems to work best at 75° F and above, and is best used in large quantities (big tanks). It changes a little after the first few rolls and a new batch should be ripened with a few unimportant rolls--it will then be stable for years. It really lasts well, even though visually it is not confidence-inspiring. Murky is normal. It is hard to mix, and the initial mixing is critical. Agitation is quite important--do it the same every time.

To Make a Working Solution	Cat. No.	Price
1 liters	01-5085	\$11.95

PYROCAT-HD FILM DEVELOPER is a semi-compensating, high-definition developer, formulated by Sandy King as an alternative to PMK. The advantages over PMK that Mr. King cites for his formula include an approximately 1/3-stop greater effective film speed, 10-15% shorter development times, more consistent staining action, lower toxicity, and no streaking or mottling with reduced agitation.

To Make a Working Solution	Cat. No.	Price
10 liters	01-5080	\$14.50
50 liters	01-5082	29.50
10 liters (Liquid)	01-5081	14.50
50 liters (Liquid)	01-5083	29.50

PYROCAT-HD IN GLYCOL FILM DEVELOPER is a high acutance developer formulated by Sandy King as an alternative to other pyrogallol based staining developers. Pyrocat-HD gives negatives of fine grain and full emulsion speed and is suitable for all types of development methods, including rotary, normal agitation, minimal agitation and stand development. Packaging in glycol stabilizes the formula to give a very long shelf life and long term consistency.

Working Solution	Cat. No.	Price
10 liters (Liquid)	01-5091	14.50
50 liters (Liquid)	01-5093	29.50

PYROCAT-MC IN GLYCOL FILM DEVELOPER is a high acutance developer formulated by Sandy King as an alternative to other pyrogallol based staining developers. Pyrocat-MC gives negatives of fine grain and full emulsion speed and is suitable for all types of development methods, including rotary, normal agitation, minimal agitation and stand development. Pyrocat-MC is slightly more energetic (faster working) than Pyrocat-HD and gives very low general stain (Base+Fog) with very long development times, making it ideal when developing negatives to the high CI needed for printing with alternative processes.

Working Solution	Cat. No.	Price
10 liters (Liquid)	01-5095	14.50
50 liters (Liquid)	01-5096	29.50
100 liters (Liquid)	01-5097	39.95

FA-1027 is a highly concentrated, high-acutance film developer that performs beautifully with all black and white films. It is a liquid which dilutes either 1:9 or 1:14. Among its characteristics are: the ability to produce an optimum negative with any black and white film, whether standard, random grain as found in HP-5, FP-4, Pan F, Tri-X, etc, or fabricated T-Grain films such as Ilford Delta 100, Kodak T-Max, Agfa Acros. The grain is very fine, but also very sharp.

Working Solution	Cat. No.	Price
10 liters (Liquid)	75-0010	14.95

PAPER DEVELOPERS

Photographers' Formulary offers a wide variety of paper developers. Each developer produces its own unique effect and the differences between any two developers ranges from subtle to dramatic. Variation in contrast, tone, depth of blacks, can be expected. The general characteristics of each developer are described. The exact effect of any of these developers characteristics of each developer are described. The exact effect of any of these developers depends upon the negative, paper and manner in which the developer is used.

FORMULARY WESTON'S AMIDOL PAPER DEVELOPER is one of the best in its class. Prints have neutral to cold tones with good crisp tonal separation and deep blacks. The working solution can be diluted to obtain softer results without greatly affecting the color. Bromide paper should be used with this developer for best results. The chemicals are used to prepare one stock solution. Solid amidol is added to make the working solution. Since amidol is very short-lived in solution, several packages are included in the kit. The stock solution has a shelf life of six months, when amidol is added only 2-3 hours.

To Make a Working Solution	Cat. No.	Price
1-10 liters	02-0010	\$19.95
2-20 liters (0.5 – 5 gal.)	02-0020	23.95
4-40 liters (1 – 10 gal.)	02-0021	43.95

FORMULARY AMIDOL PAPER DEVELOPER is similar to Ansco 113 and is an alkaline-based amidol developer. The prints resulting from Formulary Amidol Paper Developer are very similar to those obtained using Weston's Amidol Paper Developer - - cold tones and deep blacks. If you have used and like the results of Weston's Amidol, you should try this formula. Formulary Amidol developer works best with bromide papers. This developer can be used with or without dilution. Without dilution the prints have high contrast and with dilution the contrast is diminished. The shelf life of the stock solution is six months; when amidol is added only 2-3 hours. This kit contains several small packets of amidol so that you can mix small volumes of working solution.

To Make a Working Solution	Cat. No.	Price
1 – 10 liters	02-0030	\$17.50
2 – 20 liters	02-0040	23.50
4 – 40 liters	02-0041	34.50

FORMULARY DEVELOPER FOR LODIMA PAPER is regarded as one of the finest developers available. With this developer you can expect tones that are neutral to slightly warm tones. By varying the Potassium Bromide you can get tones varying all the way from cool to warm. Amidol works on all papers but particularly on silver chloride papers where it produces a pleasing tonal range. Because of its unique developing qualities, Amidol is the favorite developer of photographers who exhibit their prints.

Make a Working Solution	Cat. No.	Price
1 liters	02-0042	\$12.95
3 liters	02-0043	24.00

FORMULARY TD-30 IMPROVED DEKTOL is a neutral-tone print developer similar in properties to Dektol, although it produces slightly more brilliant, cleaner prints. Use the same dilution and time you would with Dektol, normally 1:2, and developing time of two minutes. As with most paper developers you will control contrast with the dilution of the developer

To Make a Working Solution	Cat. No.	Price
2 liters	02-0045	\$9.95
4 liters	02-0046	11.45
8 liters	02-0047	19.50

FORMULARY 106 WARM TONE PAPER DEVELOPER is equivalent to Edwal 106 and Ansco 115. It is a glycin and hydroquinone based developer. Developer 106 is a specialty developer and is popular for the reproduction of old photos. Formulary developer 106 produces warm blacks to engraving brown on chlorobromide papers. The final color of the print depends upon the dilution of the stock solution. The prints have normal tonal separation and normal to low contrast. The chemicals in Formulary 106 are used to make a stock solution which is diluted 1:7 or up to 1:15 depending on the warmth of the tone desired. The stock solution is stable for 3 to 4 months.

To Make a Working Solution	Cat. No.	Price
4 liters	02-0050	12.75
8 liters	02-0060	16.50
16 liters	02-0061	21.50

OUR BEST SELLER!

FORMULARY BW-65 LIQUID PAPER DEVELOPER is a Phenidone – glycin – based paper developer that produces a full scale of rich blacks. This developer has a long shelf life, excellent tray life, high capacity, and does not contain metol. The prints obtained with this developer are very close to those of amidol prints, but without the staining problems. The amount of working solution you will get per kit depends upon the dilution used. BW-65 is similar to F130 but is a liquid A & B stock solution formula with a very fast speed of development. At a 1:1:1 ratio, development in 15-30 seconds with full blacks is possible. At a 1:1:10 dilution you may obtain full black in 5-7 minutes.

To Make a Working Solution	Cat. No.	Price
3 – 6 liters	02-0065	\$9.95
6 – 12 liters	02-0066	14.95
12 – 24 liters	02-0067	19.95
24 – 48 liters	02-0068	26.50
48 – 96 liters	02-0069	46.95

FORMULARY 130 PAPER DEVELOPER is a superb paper developer that produces a full scale of rich blacks. The developer has an excellent shelf life, high capacity and is very suitable for batch processing. The prints obtained with F130 are surpassed only by the Amidol Developers, however F130 is much more pleasant to work with. We feel F130 is one of the best developers ever formulated. The chemicals in Formulary 130 make stock solutions which are diluted 1:1 with water to make the working solution. The stock solution is stable up to 6 months. A capacity of about 50 8x10 prints can be expected for 1 liter of working solution.

To Make a Working Solution	Cat. No.	Price
2 liters	02-0070	\$13.25
4 liters	02-0080	19.95
8 liters	02-0090	24.50
16 liters	02-0092	39.95

FORMULARY 120 LOW CONTRAST PAPER DEVELOPER is a metol based developer, and is similar in composition to Ansco 120. Developer 120 produces soft prints with good blacks and neutral tones and should not be confused with Formulary Developer 120 ED – a high-contrast catechol developer. The prints have good tonal separation with a decrease of 1/2 to 1 paper grades of contrast. The chemicals in the formula prepare a stock solution which is diluted 1:2 for the working solution. The stock solution is stable for 2 to 3 months, but the working solution can be used for only one printing session.

To Make a Working Solution	Cat. No.	Price
3 liters	02-0100	\$11.95
6 liters	02-0110	16.50

FORMULARY TD-31, SUBSTITUTE FOR SELECTOL SOFT®, is a neutral-tone, low contrast print developer similar in properties to Selectol soft. It produces subtly softer, cleaner prints than Selectol-soft, but the differences are very small. Use the same dilution you would for Selectol-soft. This is normally 1 part stock to 2 parts water, with a developing time of two minutes. For greater contrast, TD-31 developer can be diluted 1:1 or even used full strength. For less contrast TD-31 can be diluted 1:3 or 1:4.

To Make a Working Solution	Cat. No.	Price
2 liters	02-0112	\$9.95
4 liters	02-0113	15.95

FORMULARY TD-32, SUBSTITUTE FOR SELECTOL®, is a warm tone moderate contrast print developer similar in properties to Selectol. It is intended for use with warm-tone papers such as Ektalure, Portriga, and Center. It produces cleaner prints than Selectol®. For greater contrast TD-32 can be used full strength, or for less contrast can be diluted 1:3 or 1:4. The kit will make up to 2 liters depending upon the dilution used.

To Make a Working Solution	Cat. No.	Price
2 liters	02-0116	\$9.95
4 liters	02-0117	15.95

FORMULARY D-52, SELECTOL® is a long-life, warm tone, moderate contrast print developer. It is intended for use with warm-tone papers such as Ektalure, Portriga, and Center. For greater contrast development time can be increased with some papers. Warmer images are possible by shortening development time, or by adding additional bromide. Increased development times will produce colder image tones.

To Make a Working Solution	Cat. No.	Price
2 liters	02-0118	\$9.95
4 liters	02-0119	15.95

DR. BEERS' VARIABLE CONTRAST PAPER DEVELOPER is a two-stock solution paper developer. Stock solution A contains metol, a soft developer; and solution B contains hydroquinone, a contrast developer. Dr. Beers' paper developer is unusual because the contrast of the print is controlled by varying the relative amounts of the two stock solutions that are combined and diluted to prepare the working solutions.

Thus, Dr. Beers' is not a single developer, but rather a combination of developers whose results can be varied from soft to high-contrast. For a specific grade of paper, the contrast can be varied about 1.5 paper grades. The prints have good blacks and neutral tones with fine separation. The stock solutions are diluted 1:1 to obtain the working solution. The shelf life of the stock solution is 3 to 4 months, but the working solution must be discarded at the end of the working session.

(Continued in the next column)

A 1 liter kit contains chemicals to make 2 to 3 liters of working solution, depending on the dilution used.

To Make a Working Solution	Cat. No.	Price
2 liters	02-0120	\$14.95
4 liters	02-0130	19.95

FORMULARY 102 PAPER DEVELOPER is a glycin-based paper developer that is similar to Edwal 102. Prints developed in Formulary 102 have neutral cold tones with a smooth gradation. The developer produces good blacks with normal to slightly soft contrast. The prints are softer than those obtained using Formulary 130. Formulary 102 does not contain metol; therefore this developer is suitable for photographers with a sensitivity to metol. The stock solution has a shelf life of 3 to 4 months and is diluted 1:3 to make the working solution. The working solution has high capacity, but unfortunately, is sort-lived.

To Make a Working Solution	Cat. No.	Price
4 liters	02-0150	\$11.95

FORMULARY 120ED HIGH CONTRAST PAPER DEVELOPER is a catechol-based paper developer that is similar in composition and results to the Edwal 120 developer. Formulary 120 ED produces neutral to cold tones with very high contrast (1/2 to one grade higher than normal). In addition, rich deep blacks with an abrupt tonal range can be expected. Formulary 120 ED should not be confused with Formulary 120 (a very soft-working developer). The chemicals provided yield a stock solution, which is diluted to make the working solution. The stock solution is stable for 3 to 4 months. The working solution has a high capacity but limited life.

To Make a Working Solution	Cat. No.	Price
3 liters	02-0180	\$13.95

LIQUIDOL DEVELOPER

The New Paper Developer From Bill Troop and Ron Mowrey Liquidol is a revolutionary new print developer that features exceptionally long shelf life, tray life, and high capacity, along with the convenience of a 1:9 liquid concentrate. Fine printers will also appreciate that this developer has considerably more flexibility in over- and under-development than most print developers. This feature is limited when using the many papers which include incorporated developing agents. But when using papers which do not have incorporated developing agents, demanding printers will appreciate the extra dimension of flexibility and control this developer offers. Liquidol has been carefully designed to replicate the appearance of prints developed in industry-standard Dektol®, yet to provide enhanced shadow separation. Other advantages are full development within 60 seconds at 1:9 dilutions. We invite users to experiment with different times and dilutions. We think you really will be surprised by the flexibility and dependability Liquidol offers.

To Make a Working Solution	Cat. No.	Price
5 liters	02-0200	\$9.95
10 liters	02-0210	15.95
20 liters	02-0215	25.95

FIXERS

Following exposure and development of the negative or print, the undeveloped silver salt must be removed to prevent eventual darkening or staining. Kits for rapid fixing, standard fixing, and archival fixing are offered. In addition, fixers are available with or without hardeners

FORMULARY FIXER 24

EXCELLENT FOR USE WITH PMK AND OTHER PYRO FILM DEVELOPERS.

Fixer 24 is non-hardening sodium thiosulfate fixer. Without hardener, prints are easier to wash, tone, and spot. Prints are fixed in two successive fixing baths requiring 3 to 5 minutes in each bath. The chemicals in this kit are used to make a working solution which has a shelf life of 2 to 4 months. One liter fixes about 25 8x10 prints.

To Make a Working Solution	Cat. No.	Price
1 liter	03-0010	\$ 9.95
2 liters	03-0020	12.95
4 liters	03-0040	15.95



FORMULARY TF-4 ARCHIVAL RAPID FIXER
EXCELLENT FOR USE WITH PMK AND OTHER PYRO FILM DEVELOPERS.

TF-4 is an extraordinary fixer for both paper and some films. TF-4 works well in batch processing, fixing resin coated paper in 30 seconds and fiber based paper in 60 seconds. You can also use TF4 on TMAX films, fixing for 6 minutes to remove the magenta stain. We recommend 20 rolls of film to 1 liter working solution. TF-4 does not require a stop bath nor a hypo clearing agent, and has little odor when mixed with distilled water. TF-4 is a non-hardening fixer which makes it excellent for prints that are to be toned or retouched. Most modern film emulsions have built-in hardener, eliminating the need for hardener in the fix. The stock solution which has a shelf life of 1 year is diluted 1:3 to make the working solution. The working solution has a shelf life of 6 months.

To Make a Working Solution	Cat. No.	Price
4 liters (1 gal.) (Ship 1 liter)	03-0141	\$10.95
8 liters (2 gal.) (Ship 1/2 gallon)	03-0145	19.95
16 liters (4 gal.) (Ship 1 gallon)	03-0142	29.95
32 liters (8 gal.) (Ship 2 gallons)	03-0143	53.95
64 liters (16 gal.) (Ship 4 gallons)	03-0144	86.50

FORMULARY RAPID FIX WITH HARDENER

Rapid fix with hardener is an ammonium thiosulfate fixer that is fast and has high capacity. The hardener is mixed separately and is recommended for films but can be omitted for paper. Fixing time for film is 2 to 4 minutes and 3 to 5 minutes for prints in two successive baths. The chemicals in this kit are used to make 1 liter of concentrate, which is diluted 1:2 for film and 1:4 for prints. A 1 liter kit yields 3 liters of fix for film and 5 liters of fix for prints. Stock solution lasts 2 months. One liter fixes 30 rolls of film or 25 8x10 prints.

Description	Cat. No.	Price
3 liters	03-0146	\$12.95

FORMULARY TF-5 ARCHIVAL RAPID FIXER

TF-5 is an extraordinary fixer for both paper and some films. TF-5 works well in batch processing, fixing resin coated paper in 30 seconds and fiber based paper in 60 seconds. You can also use TF-5 on TMAX films, fixing for 6 minutes to remove the magenta stain. We recommend 20 rolls of film to 1 liter working solution. TF-5 has little odor when mixed with distilled water. TF-5 is a non-hardening fixer which makes it excellent for prints that are to be toned or retouched. Most modern film emulsions have built-in hardener, eliminating the need for hardener in the fix. The stock solution which has a shelf life of 1 year is diluted 1:3 to make the working solution. The working solution has a shelf life of 6 months.

To Make a Working Solution	Cat. No.	Price
4 liters (1 gal.) (Ship 1 liter)	03-0200	\$10.95
8 liters (2 gal.) (Ship 1/2 gallon)	03-0201	25.95
16 liters (4 gal.) (Ship 1 gallon)	03-0202	45.95
32 liters (8 gal.) (Ship 2 gallons)	03-0203	73.95

HYPO CLEARING AGENT, STOP BATHS, TEST SOLUTIONS

FORMULARY TAF-1 PRINT DEVELOPER IMPROVER

is a formula that, when added to any print developer, changes the typical image tone the print creates, from a greenish black emphasis to a blue-black emphasis. It can also be used to rescue out of date enlarging papers.

To Make a Working Solution	Cat. No.	Price
1 liter	03-0147	\$6.95

FORMULARY HYPO CLEAR AGENT aids in the archival process, based upon ion exchange: ions absorbed onto a solid film or paper can be replaced by ions of a solution such as those found in the Hypo Clear solution. The net effect is that the absorbed thiosulfate ions of the hypo (difficult to remove by a water wash) are replaced by sulfite ions (readily removed by a water wash). Hypo Clear does not decrease the total number of ions absorbed on the paper, it merely exchanges those ions originally on the film or paper with those of Hypo Clear. Washing after the use of Hypo Clear is IMPERATIVE. The chemicals in this kit are used to make the stock solution which is diluted 1:9 to make the working solution.

Description	Cat. No.	Price
10 liters (2.5 gal)	03-0165	\$5.95

INDICATOR STOP BATH The classic indicator stop bath of acetic acid and Bromocresol indicator. Turns color when stop bath is exhausted. Packaged in concentrate diluted 1 to 64 for working strength.

Description	Cat. No.	Price
1 pint to make 8 gallons*	03-0185	\$7.95
1 quart to make 16 gallons*	03-0186	10.95

FORMULARY TS-4 ODOR-FREE STOP BATH for either prints or film has been made for photographers who are tired of the unhealthy and unpleasant fumes put out by conventional stop and fixing baths. It is simple and economical to use.

Description	Cat. No.	Price
1 liter	03-0189	\$6.95
10 liters	03-0188	9.95

TEST YOUR WASH TIMES

THREE TEST SOLUTIONS ARE OFFERED: one way to test prints for residual hypo; a second to test prints for residual silver; and a third to help determine if a fixing bath has been exhausted.

FORMULARY RESIDUAL HYPO TEST is a simple chemical test that can be used to determine if a print or film strip has been adequately washed. The test is based upon the formation of a yellow stain of silver based upon the formation of a yellow stain of silver sulfide – silver thiosulfate on the white of a test print (or the clear area of a negative film strip) when the test solution is applied.

Description	Cat. No.	Price
100 ml	03-0150	\$17.95
200 ml	03-0160	25.95
1000 ml	03-0161	36.95

IS YOUR FIX FIXING?

FORMULARY RESIDUAL SILVER TEST is used to determine if any silver ions remain in a print or on a film strip after fixing. When the silver test solution is applied to photographic material the sulfide ions in the solution react with any residual silver ions in the material forming a yellow stain indicating the fixing process is inadequate.

The chemical in the kit makes a stock solution which is diluted 1:9 to make more than 1 liter of working solution. The stock solution shelf life is 3 months, although the working solution lasts only 1 week.

Description	Cat. No.	Price
10 liters (2.5 Gal)	03-0170	\$9.95

FORMULARY FIXER TEST SOLUTION is used to tell when a fixer bath has become exhausted by accumulating excess silver ions. Unlike developing solutions, which discolor when they are exhausted, fixer baths show no outward appearance when they are spent. Therefore it is necessary to either keep an accurate count of the number of prints or rolls of film fixed or test the fixer solution periodically to determine when it has become exhausted. Fixer Test Solution provides a simple chemical test that allows you to determine when the fixer solution is exhausted and must be replaced.

The chemicals in this kit are used to prepare the test solution which has a shelf life of one year.

Description	Cat. No.	Price
100 ml	03-0180	\$9.95

FORM-A-FLO SOLUTION decreases water surface tension; takes away water streaks on film and aids film in drying faster. Use 4 drops per roll of film—do not squeegee.

Description	Cat. No.	Price
4 oz. bottle	03-0195	\$3.95
8 oz. bottle	03-0196	4.95

MICRO-MIXERS these little mixing syringes are the answer to quick and accurate measurement of small quantities of liquid solutions. Extension tube reaches down to the bottom of narrow-mouth bottles. Reads out in 1 ml increments, simply add the amount of solution needed, and return the rest to the storage container. Sizes include 3 ml, 6 ml, 12 ml, 35 ml and 60 ml.

Description	Cat. No.	Price
3 ml	09-0340	\$2.95
6 ml	09-0345	3.95
12 ml	09-0350	5.95
35 ml	09-0355	6.95
60 ml	09-0360	7.95

SHEET FILM DEVELOPING TRAYS

FORMULARY 4X5 SHEET FILM DEVELOPING TRAY

Six compartment sheet film developing tray of heavy duty molded plastic with holes on bottom and sides of each compartment for ease of use and better circulation of developer. Made for 4X5 sheet film.

Description	Cat. No.	Price
6 Slot Tray	07-1025	\$59.95

FORMULARY 8X10 SHEET FILM DEVELOPING TRAY

A 4 compartment sheet film developing tray of heavy duty molded plastic with holes on bottom and sides of each compartment for ease of use and better circulation of developer. Made for 8X10 sheet film.

Description	Cat. No.	Price
4 Slot Tray	07-1030	\$89.00

ALTERNATIVE LIGHT BOX

We've just added UV light boxes to our store!

Bud has them built and ready to go. They're UV light boxes for the alternative processes, large enough to expose images up to 16x20". When it's dark outside, or when the sun refuses to shine, these babies will give you consistent, predictable results. No more ruined prints because the sun decides to hide behind a cloud, no more extended exposure times because you live above the Arctic Circle.

The light boxes are powered by (12) 24" UV tubes, which are shipped with the unit.

Description	Cat. No.	Price
UV Light Box	12-0590	\$795.00

DRY FERRIC OXALATE*

Ferric Oxalate Dry Pack*:

Just add 25 ML of distilled water and shake well.

Description	Cat. No.	Price
Ferric Oxalate *	10-0535	\$7.50

Ferric Oxalate Dry* :

A dry packet of Ferric Oxalate for you to mix in your own container.

Description	Cat. No.	Price
Ferric Oxalate* 10 G	10-0536	\$8.00
Ferric Oxalate* 100 G	10-0538	\$58.00

HOLOGRAPHY DEVELOPERS

The word "holography" is derived from Greek roots that mean "entire picture." A hologram is the final product of practicing holography. But what is it?

A hologram has been said to be a window with memories. On or near the apparently blank window (piece of glass) an object was present some time in the past. When the glass is properly illuminated by a spotlight, an image is recreated in three dimensions, as if the object had been brought back to the window, you can see an entire image by looking through only part of a hologram.

There are two basic types of holograms. The "white light reflection," or "reflection," hologram can be viewed with a white spotlight as if it were a painting. The "transmission" hologram requires a light source (sometimes a laser) from behind. Then there are numerous hybrids that combine many different techniques to serve particular functions.

HOLOGRAPHY FILM DEVELOPER JD-2 is a developer for both transmission and reflection holograms. It is relatively safe, even for the home hobbyist, and is recommended by Dr. Jeong of the Lake Forest College holography workshops of Lake Forest College.

When making white light reflection holograms with a He-Ne laser, this process allows you to control the color of the image from red to blue depending upon the exposure. Under-exposure yields red; over-exposure yields blue. Correct exposure yields a gold color.

Description	Cat. No.	Price
1 liter	04-3010	\$16.95
10 liters	04-3011	85.00

HOLOGRAPHY FILM PROCESSING KIT JD-3 was developed and is used in the Lake Forest College holography workshops of Lake Forest College. It is highly recommended by its director, professor Tung H. Jeong, because it not only gives superior results for both reflection and transmission holograms made on Agfa Holotest-type film and plates, but it is safer to use than JD-2 by hobbyists and schools. Unlike JD-2 it does not contain potassium dichromate and sodium bisulfate. The added post treatment using vitamin c turns the hologram to a reddish brown color which reduces scatter noise and prevents print out.

Description	Cat. No.	Price
1 liter	04-3020	\$16.95
10 liters	04-3025	85.00

HOLOGRAPHY FILM PROCESSING KIT GP-2 is the latest formulation from Professor Tung H. Jeong of Lake Forest College. The GP-2 developing procedure is most suitable for the Russian produced PFG-03M fine grain emulsion are discussed in the book Silver Halide Materials for Holography and Their Processing by Dr. Hans Bjelkhagen, and published by Springer-Verlag. The book and materials are distributed by Integraf.

Description	Cat. No.	Price
1 liter	04-3030	\$16.95

Holograms now serve a purpose on credit cards to discourage counterfeiting; on magazine covers to present three-dimensional images; in checkout counters to scan the bar codes; in art galleries to exhibit multicolor concepts; in laboratories to perform nondestructive testing; in precision measurements; in aircraft to allow pilots to read instruments without taking their eyes off the target; and even in electronic circuits and computer-generated optical elements to perform difficult and otherwise impossible functions."

The Formulary would like to thank Dr. Jeong for allowing us to copy our introduction for Holograms, from his book, "LASER HOLOGRAPHY Experiments You Can Do ... From Edison" and for his outstanding work in the Holography field.

Photographers' Formulary offers five pre-scaled kits suitable for either the classroom student or the hobbyist.

HOLOGRAPHY FILM PROCESSING KIT JD-4

JD-4, A New Way to Process PFG-03M Plates and Film: It is well known that PFG-03M emulsion records the brightest and clearest reflection holograms. JD-4 is a newly discovered processing regime for the PFG-03M emulsion. Its main features are: (1) it increases the sensitivity of PFG-03M to the same level as PFG-01, i.e., the exposure time can be one-tenth as long as before; and (2) the exposed hologram can be developed in 20 seconds and bleached in less than one minute. Also, the finished hologram can be quick-dried using warm air. Furthermore, JD-4, compared to any other processing regime, uses chemicals with lowest toxicity and volatility. Its main developer is ascorbic acid and its main bleach is copper sulfate. Using the PDF-03M and JD-4 combination, one can now make bright and clear reflection and transmission holograms using low output lasers, such as a diode laser from Integraf, and finish the experiment within a short time.

The PFG-03M materials are distributed by INTEGRAF (Phone (847) 234-3756).

Description	Cat. No.	Price
1 liter	04-3040	\$16.95
10 liters	04-3045	85.00

HOLODEVELOPER 602 was given to us by Hans Bjelhaugen from Lasergruppen Hologvision AB, Stockholm, Sweden. It is a developer for reflection holograms in particular; made for Agfa Holotest 8 E7 5HD material.

The developer works well for Denisyuk type reflection holograms using both He-Ne or Krypton CW lasers or pulsed ruby lasers. The exposure depends on the laser used but is around 100 uJ/cm².

HD-602 works very well giving a high signal-to-noise ratio and high diffraction efficiency. The developer is completely stable as long as Part A and Part B are not mixed, and remains stable after being mixed for several weeks. One liter of mixed developer can be used to do 100 4x5 plates.

A reversal "Pyrochrome Bleach" is included in this kit. Chemicals will make 1 liter of three solutions.

Description	Cat. No.	Price
1 liter	04-3050	\$34.95

REDUCERS, INTENSIFIERS, ADDITIVES

Reducers and intensifiers are useful for adjusting negative contrast and correcting development mistakes. They can save bad negatives and improve good ones. Reducers and intensifiers are helpful for increasing brilliance, clearing highlights, and opening shadows in prints.

FORMULARY REDUCER I FOR NEGATIVES is a hypopotassium Ferricyanide negative reducer, which is similar to both Kodak R-4a and Kodak R-4b. The chemicals in the kit are used to make two stock solutions. Depending upon the relative amounts of the two stock solutions that are used to make the working solution, Reducer I can act either as a sub proportional or as a proportional reducer. A sub proportional reducer removes silver metal from low density areas faster than it does from the high-density areas. This mode of removal improves over-developed negatives. Working solution amounts depend upon the dilution you use.

Description	Cat. No.	Price
1 liter	05-0010	\$14.95

FORMULARY REDUCER II FOR NEGATIVES* is a Persulfate reducer that is similar to Ilford IR-2. Reducer II is a super proportional reducer and removes silver from the dense areas of the negative faster than it does from the faint areas. The net result is a DECREASE IN NEGATIVE CONTRAST.

The chemicals in the kit are used to make 1 liter of working solution and 1 liter of an after-bath solution containing sodium sulfite.

Description	Cat. No.	Price
1 liter*	05-0020	\$13.95

FORMULARY REDUCER III FOR NEGATIVES* is a potassium permanganate-ammonium Persulfate reducer that removes silver metal from the negative in approximate proportion to its existing density. In this respect, the action of Reducer III is like development in reverse. The net effect is that the OVERALL DENSITY OF THE NEGATIVE IS DIMINISHED.

The kit contains chemicals to make two stock solutions of 1 liter each. The working solution is prepared just prior to use. Sodium Metabisulfite is included in the kit for an after-bath.

Description	Cat. No.	Price
3 liters*	05-0030	\$14.95

FORMULARY REDUCER IV FOR NEGATIVES is similar to Ansco 311. It is not a true reducer; rather it is only a bleach. The chemicals in this kit are used to convert the silver metal in the negative back to a silver halide which then can be reconverted to silver metal in a redevelopment step. Any standard developer can be used for the redevelopment.

The chemicals in this kit are used to prepare 1 liter of working solution, which is reusable. The working solution keeps well and has a high capacity.

Description	Cat. No.	Price
1 liter	05-0040	\$10.95

FORMULARY SPOTTING REDUCER II FOR PAPER is simply the classical Farmer's Reducer. The solution acts by conversion of the silver metal in the print to silver bromide. The reducer can be used to eliminate an unwanted dark spot in a print due to a flaw in the negative; to reduce the contrast; white out a portion of the print or reduce the print as a whole.

The chemicals in this kit are used to prepare two stock solutions, which can be stored for a considerable amount of time. The working solution is prepared just prior to use and used only once.

To Make a Working Solution	Cat. No.	Price
375 ml	05-0060	\$9.95

FORMULARY CHROMIUM INTENSIFIER FOR NEGATIVES Formulary Chromium Intensifier increases the density of black and white negatives. This is a proportional intensifier. The amount of intensification is somewhat proportional to the amount of silver originally present in the negative. Negatives intensified with chromium are stable. The process is used in room light and must be redeveloped in a quick-acting print developer. Chemicals are used once and discarded. Additional intensification may be obtained by repeating the process. Not for T-grain emulsions (see Silver Intensifier).

Description	Cat. No.	Price
1 liter stock makes 2.75 gallons	05-0065	\$13.95

NEW ITEM

INKPRESS TRANSPARENCY FILM

Transparency Film is a 5 mil dimensionally stable polyester film with a clear micro-porous topcoat specifically designed for use in creating screen positives and negatives with dye or pigment ink jet printers. Dan Burkholder, originator of the digital negative process and author of "Making Digital Negatives for Contact Printing" says, "Not only does the Inkpress Transparency Film make great digital negatives, it's also available in all the sheet sizes, making it perfect for those who dread cutting sheets from large rolls.

Cat. No.	Sheet Size	Sheets/ Pkg.	Price
09-0440	8.5x11	20	\$ 2295
09-0441	8.5x11	50	50.00
09-0442	11x17	20	51.95

SPECIAL ORDER SIZES

09-0443	11x17	50	120.00
09-0444	13x19	20	64.95
09-0445	13x19	50	153.95
09-0446	17x22	20	81.95
09-0447	17x100'	Roll	198.95
09-0448	24x100'	Roll	277.95
09-0449	44x100'	Roll	507.95
09-0450	13x32.8'	Roll	70.95
09-0451	54x100'	Roll	550.00
09-0452	60x100'	Roll	599.00

FORMULARY TAF-1 PRINT DEVELOPER IMPROVER

is a formula that, when added to any print developer, changes the typical image tone the print creates, from a greenish black emphasis to a blue-black emphasis. It can also be used to rescue out of date enlarging papers.

To Make a Working Solution	Cat. No.	Price
1 liter	03-0147	\$6.95

FORMULARY SILVER INTENSIFIER FOR NEGATIVES is similar in composition to Kodak IN-5. The intensifier acts by depositing additional silver on an underdeveloped negative. The results are permanent, and the new grain is surprisingly fine. Although expensive, this intensifier is probably the best that has been formulated. The chemicals in the kit are used to make 4 stock solutions, which are mixed just prior to using. The negative is intensified in room light to the degree desired and then washed. The stock solutions are stable for months, but the working solution is usable for only 1/2 hour after mixing. Works with T-grain emulsions.

To Make a Working Solution	Cat. No.	Price
1.5 liters	05-0070	\$49.95
3 liters	05-0080	73.95

RECOMMENDED FOR PUSH PROCESSING

EXCEL FILM ENHANCER will give your favorite film developer increased shadow detail, and film speed, while reducing the grain and developing time. It gives crisp, easy to print negatives without blocking the highlights. EXCEL is an easy to use non flammable liquid concentrate, which can be used with diluted or undiluted developers by keeping the ratio of 30 ml per liter. Excel is excellent for low light photo sessions and improves push processed films. Shelf life is 1 year in a tightly sealed bottle.

Description	Cat. No.	Price
4 oz. Bottle	05-1000	\$ 7.95
32 oz. Bottle	05-1010	14.95

CRONE:C ADDITIVE* converts D-76 to C-76 by the addition of one ounce of additive to a liter of D-76. The boost given by Crone:C Additive improves shadow detail, even with the recommended shorter development. This time-cut helps to limit grain growth. It preserves sharpness and protects you film and still give easy to print negatives. Crone:C is a liquid concentrate and has a shelf life of 1 year.

Description	Cat. No.	Price
4 oz. Bottle*	05-6000	\$11.95
32 oz. Bottle*	05-6010	29.95

• CLEANERS •

CLOTHING STAIN REMOVER Our popular kit is now made into a convenient 8 oz squirt bottle. Already pre-mixed for your convenience this product works on developer and fixer stains on most materials. This product has been known to take stains out that were several years old. Testing on a particular stain and fabric combination is recommended before using.

Description	Cat. No.	Price
8 oz. Bottle	05-0105	\$ 10.95
64 oz. Bottle	05-0106	32.95

PRO LINE GENERIX PHOTOGRAPHIC EMULSION CLEANER*

is completely safe for use on both black and white and color materials: slides, negatives and prints (including Cibachrome). Generix easily removes finger oils, grease pencil, adhesive residue, mildew, ball-point ink, smoke and soot damage and most permanent inks. This cleaner has a neutral pH, is archival, and will leave no residue to adversely affect dye stability, and dries instantly. It is recommended for use with silver-based emulsions and is not to be used on non-hardened gelatin or albumen emulsions.

Description	Cat. No.	Price
1 oz. Pump spray bottle*	05-0145	\$4.95

HANDI PADS are a 100% pure cotton, non woven fabric. They are lint less, soft economical, absorbent and won't scratch. They are ideally suited for cleaning photographic film and print emulsions. Handi-Pads are so soft they can be safely used to clean all types of sensitive surfaces : scanners, CD's, mirrors, lenses, telescopes etc.

Description	Cat. No.	Price
20 4 x 4 inch (10 cm. sq.) wipes	05-0130	\$2.50

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www.photoformulary.com

*Be sure to check it out on the website or
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www.workshopsinmt.com

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800-922-5255**

TONERS

The emotional impact of a print can be dramatically modified by toning. When a print is toned, the silver in the image is exchanged, to an extent, with another metal or with an inorganic salt. The end result can be exquisite. In addition, toning can often increase the permanence of the print. Photographers' Formulary offers a large variety of toners. Since the final print color, in part, is determined by your printing materials and methods, the toners are described in general terms.

FORMULARY COPPER TONER contains copper sulfate, potassium ferricyanide, and potassium citrate which results in an image toned with copper metal. The toner produces a variety of colors ranging from warm brown through coppery hues to chalk red. The exact color obtained depends on the length of toning time. The process is rapid and progressive. It is possible to remove the print from the bath at any stage of its toning. Although fiber based papers work best, resin coated papers will work nicely also. The chemicals contained in the kit are used to make two stock solutions, which are mixed in equal volumes to obtain the working solution. The stock solutions are stable for a reasonable period of time, but the working solution should be discarded after use.

To Make a Working Solution	Cat. No.	Price
2 liters	06-0010	\$10.95

FORMULARY IRON BLUE TONER is an inexpensive and effective blue toner similar to Ansco Toner 241. It is often used on snow scenes and seascapes. Prints are toned in a single solution of ferric ammonium citrate and potassium ferricyanide until they appear green. After washing they turn a clear blue color. The tones can be softened in a borax bath.

To Make a Working Solution	Cat. No.	Price
1 liter	06-0020	\$14.95

FORMULARY SEPIA SULFIDE TONER 221 is a classic bleach and redevelopment toner that produces rich permanent sepia-brown tones. Most types of paper tone well with this process, including resin coated paper. The bleach contains potassium ferricyanide that changes the metallic silver to a silver salt. After bleaching, the print is then redeveloped in sodium sulfide.

To Make a Working Solution	Cat. No.	Price
1 liter	06-0035	\$12.95

FORMULARY THIOUREA TONER will give beautiful rich brown sepia-like tones. The print is first bleached using a ferricyanide-bromide bath then redeveloped in a sulfide bath. In this process, the silver metal in the print is first converted to silver bromide, then to brown silver sulfide. The end result will give the impression of a print made in the late 1800's.

To Make a Working Solution	Cat. No.	Price
1 liter	06-0045	\$15.50

FORMULARY HYPO-ALUM SEPIA TONER yields sepia brown to reddish brown tones, that are slightly darker brown than the Sepia 221. The tone depends on the paper and length of time toned. Hypo Alum requires a hot water bath (125° F) and takes approximately 25 minutes to tone. The chemical action like other sepia toners is the conversion of silver to silver sulfide. (Continued in next column)

FORMULARY HYPO-ALUM SEPIA TONER

(continued from previous column)

This toner maybe used for may years and improves with age. We recommend fiber based papers only with this toner.

To Make a Working Solution	Cat. No.	Price
1 liter	06-0100	\$16.95
2 liters	06-0110	19.95

GOLD CHLORIDE, SOLID

Description	Cat. No.	Price
per gram	10-0620	\$69.95
Five grams	10-0621	298.95
Ten grams	10-0623	449.95

GOLD CHLORIDE 1% SOLUTION

Description	Cat. No.	Price
10 ml	10-0630	\$16.95
50 ml	10-0632	50.95
100 ml	10-0634	77.95

FORMULARY NELSON GOLD TONER is similar to Kodak T-21 and is unmatched in its versatility. Tones range from just a hint of warmth to rich sepia browns. Toning can be stopped at any time between 5 and 20 minutes. Final images are permanent and are formed by a combination of silver sulfide and gold. The toner keeps almost indefinitely and its capacity is extended by adding small amounts of gold chloride solution, which is included in the kit. The toner is relatively inexpensive per print. One liter of solution is used to tone about 300 to 400 8x10 prints (with replenishment), depending upon tones desired. The satisfying results of this toner have made it a popular toner over the years. The chemicals in this kit are used to prepare a working solution, and the kit contains sufficient gold chloride from a replenisher solution.

To Make a Working Solution	Cat. No.	Price
1 liter	06-0120	\$73.95
2 liters	06-0130	109.95
4 liters	06-0140	169.95

OUR 35th YEAR



FORMULARY GOLD PROTECTIVE (GP) TONER is similar to Kodak GP-1 and offers maximum protection with little or no change to print color. However, with some prints a slight shift towards blue-black may be noted. Prints treated with Gold Protective Toner are even more stable than those toned with selenium or sulfide. This toner can also be used to protect negatives. The chemicals in this kit are used to make a working solution, which has a capacity of about eight 8x10 prints per liter.

To Make a Working Solution	Cat. No.	Price
1 liter	06-0170	\$31.95
10 liters	06-0180	118.95

FORMULARY POLYSULFIDE TONER yields rich, dark brown and is similar to Kodak T-8. The toning bath contains potassium polysulfide (liver of sulfur) and sodium carbonate. Formulary Polysulfide Toner, like Hypo-Alum Toner, deposits silver sulfide on the image. The difference between these two toners is the depth of the resulting brown color. Polysulfide Toner gives a rich, dark brown tone while tones obtained using the Hypo-Alum are much lighter. Both toners give permanent images. Toning with the Polysulfide Toner takes about 15 to 20 minutes at room temperature. This toner works well on all papers except Kodabromide paper. The chemicals in this kit are used to prepare 1 liter of working solution, which has a capacity of about 35 8x10 prints. A second package of sodium carbonate to be used to partially rejuvenate the spent working solution is included. The working solution is stable for extended periods of time.

To Make a Working Solution	Cat. No.	Price
1 liter	06-0190	\$12.95

FORMULARY IRON GREEN/BLUE TONER can produce either green or blue tones on fiber base papers. The green tone is a true green unlike most green toners, which have blue-green shadows and light green highlights. The blue tone produced is a bright blue, brighter than Formulary Iron Blue Toner. This kit has a high capacity for prints. This formula was reformulated in 1989. If you tried it previously and were concerned with some of the hazardous chemicals it contained, you will be happy with the new version.

To Make a Working Solution	Cat. No.	Price
1 liter	06-0200	\$20.95

FORMULARY GOLD 231 TONER produces a wide range of colors. When used alone, Gold 231 gives deep blue tones. When used after sepia toning, red colors are produced whose brilliance are determined by the type of paper used. Partial toning in Hypo-Alum Toner followed by Gold 231 gives blue-black shadows and soft reddish highlights. Gold 231 toner contains ammonium Thiocyanate and gold chloride. The chemicals in the kit are used to make a working solution. The capacity is determined by the method of toning.

To Make a Working Solution	Cat. No.	Price
1 liter	06-0210	\$74.95

FORMULARY GOLD 231 TONER W/O FIXER	Cat. No.	Price
1 liter	06-0211	\$59.95

FORMULARY PRINTING-OUT-PAPER GOLD TONER.

To some individuals, POP papers seem to have a rather unpleasant yellow-brown color. Gold toning prior to fixing produces red to purple tones depending on the time. This toner is simply a gold chloride – borax solution. One liter of solution is used to tone about ten 8x10 prints.

The chemicals in the kit are used to make a working solution, which keeps well.

To Make a Working Solution	Cat. No.	Price
1 liter	06-0220	\$32.95

FORMULARY/CAW POP TONER Gelatin chloride printing-out-papers (P.O.P.) customarily used a thiocyanate and gold toning formula, rather than the above gold-borax formula. This kit contains requisite chemicals to compound the toning formula recommended by the Chicago Albumen Works for their gelatin chloride P.O.P. The two stock solutions will keep indefinitely. Enough for about 50 8x10 prints.

To Make Approximately	Cat. No.	Price
50 8x10 prints	06-0230	\$104.95

FORMULARY POP COMBINED GOLD TONER-FIXER is simple and dependable. It contains sodium thiosulfate and gold chloride. By combining the toner and the fixer for printing-out-paper, considerable time is saved. The chemicals in the kit are used to make 1 liter of working solution, which has a capacity of about thirty 8x10 prints. Care must be taken to ensure that the prints are fixed. If the desired tone is reached quickly, prints must be fixed in a separate bath.

To Make a Working Solution	Cat. No.	Price
1 liter	06-0240	\$34.95

FORMULARY POP LEAD-GOLD COMBINED TONER-FIXER contains alum, lead acetate, gold chloride, and sodium thiosulfate. This toner-fixer produces rich brown tones. The solution is long lasting and has a capacity of about 8 8x10 prints per 100 ml of working solution. Prints must be toned for at least 10 minutes to allow the gold to tone and the print to fix.

To Make a Working Solution	Cat. No.	Price
1 liter	06-0250	\$76.95

OUR 35th YEAR



ALTERNATIVE PRINTING PROCESSES

Photographers' Formulary offers a wide variety of kits and chemicals for the Alternative Printing Processes. Alternative Processes date as far back as the 1800's and have become extremely popular as the years go by. The Formulary carries the most complex processes such as Platinum printing, and for the beginners the Cyanotype is a good kit to start with. All kits come with complete instructions. Be sure to check our book selection, as we carry many dealing with the Alternative Processes

REPLACEMENT CHEMICALS FOR PLATINUM AND PALLADIUM PRINTING

A complete line of replacement chemicals for both Platinum and Palladium printing are available in kit form. Each chemical is also listed in the bulk chemical section of our price list.

SENSITIZER A for Platinum and Palladium printing (30 ml of Ferric Oxalate solution)

To Make a Working Solution	Cat. No.	Price
30 ml	07-0010	\$13.25

SENSITIZER B for Platinum and Palladium printing (30 ml of Ferric Oxalate solution plus packet containing 0.26g (for palladium) or 0.18g (for platinum) potassium chlorate).

To Make a Working Solution	Cat. No.	Price
30 ml for palladium prints	07-0022	\$15.30
30 ml for platinum prints	07-0023	\$15.30

CITRIC ACID

To Make a Working Solution	Cat. No.	Price
30 grams	07-0024	\$4.99

POTASSIUM OXALATE

To Make a Working Solution	Cat. No.	Price
227 grams	07-0028	\$18.95

FORMULARY KALLITYPE PRINTING is similar to the Platinum/Palladium process in theory and technique. However, Kallitype printing uses a less expensive silver salt. Although the outstanding permanence of Platinum and Palladium is not duplicated, good Kallitype prints have a Platinum-like quality. Print color can be controlled by development. The prints may be toned with printing-out-paper toners, or Gold Protective (GP-1) toner. With proper fixing and clearing, Kallitype prints have good permanence. About 30 4x5 prints can be made using this kit.

To Make	Cat. No.	Price
30 4x5 prints	07-0070	\$55.95

FORMULARY VAN DYKE BROWN PRINTING KIT as the name implies, produces beautiful brown images. It is similar to the Kallitype process but uses Ferric Ammonium Citrate as the sensitizer. This modification results in a print that needs no special developer, just a short water rinse and fixing. Van Dyke Brown printing does not have flexibility in contrast control nor the ability to change print color with development. However, the prints may be toned with printing-out-paper toners. This kit will produce 100 4x5 prints.

To Make	Cat. No.	Price
100 4x5 prints	07-0080	\$46.95

FORMULARY CYANOTYPE is one of the oldest photographic processes and one of the least expensive. Cyanotypes have a long full scale and distinctive blue color. The process can be used to produce a pale white image on a blue background or a blue image on a white background. This process is a contact print process and can be transferred to a variety of media; paper, cloth, leather, ect. This kit will produce 24 8x10 prints. **Liquid kit** comes packaged as 500 ml each of solutions A & B in black bottles.

To Make	Cat. No.	Price
24 8x10 prints Dry Kit	07-0090	\$19.95
24 8x10 prints Liquid Kit	07-0091	19.95

FORMULARY NEW CYANOTYPE KIT was formulated by Dr. Michael Ware. The formula was published in the Jan/Feb 1997 issue of Photo Techniques. According to Dr. Ware, "the New Cyanotype processes uses a single sensitizer solution, having a long shelf life, to make prints of an excellent stable blue color and a long tonal response, with a speed much faster than the traditional process. "It also loses little, if any, blue color in the final wash water, and is much more suited to a greater variety of papers. This kit will produce approximately 50 8x10 prints if the sensitizer is applied with a glass coating rod.

To Make	Cat. No.	Price
50 8x10 prints	07-0095	\$19.95

FORMULARY GUM BICHROMATE KITS are one of the most versatile and least complicated of the non-silver processes. We offer two Gum Printing kits; the Classical containing only black pigment, and the Contemporary, containing red, blue, and yellow pigment. Both kits have extensive directions for their use. Gum printing is unique among all the printing processes. It is distinguished by unlimited flexibility. The printer has complete control and may produce prints of any color or contrast. These prints are characterized by a long, open scale that is soft and romantic, but fine detail is not possible.

Gum Printing uses water color pigments rather than metal to form the base. The paper is coated with the gum Arabic and dichromate salt. When dried paper is contact printed, the exposed areas become water insoluble. A warm water development dissolves the gum from the unexposed areas. The pigment in the retained areas forms the image. Multiple printing with different colors is a common technique. Makes 35 8x10 prints.

Description	Cat. No.	Price
Classical Gum Printing Kit	07-0100	\$27.95
Contemporary Gum Printing Kit	07-0105	39.95

FORMULARY SALTED (PLAIN) PAPER KIT is a modern version of Fox Talbot's printing paper. Salted paper prints have a beautiful delicacy in the lighter tones while the deeper shadows seem flat. The original paper surface is preserved and has an effect on the final print this process is the forerunner of Albumen, Collodion, and Gelatin.

Description	Cat. No.	Price
0.5 liter	07-0110	\$60.95

PUDDLE PUSHER® glass coating rods. Glass rod with handle for coating sensitizer onto paper to make alternative process prints. Also excellent for use with Formulight Liquid Emulsion.

Description	Cat. No.	Price
5x7	07-0270	\$18.00
8x10	07-0280	21.95
11x14	07-0290	26.95

We can order special sizes, call to inquire.

PRINT FRAMES are made at the Formulary from high quality oak, with a felt-lined, hinged back board for print inspection. Pressure clips hold your negative secure while printing. All frames are made one inch bigger than the size quoted. (i.e. an 8x10 frame actually has a glass size of 9x11 so that you get a full 8x10 print). Frames are stained black.

Description	Cat. No.	Price
8x10	07-2000	\$59.95
11x14	07-2005	70.95
16x20	07-2010	92.95
20x24	07-2020	109.95

We can do special order sizes, call to inquire.

STEPWEDGES These popular 21 step wedges are made for use with either 4x5 or 120/120 film. The step wedges fit directly into a 4x5 or 120 film holder. The film densities vary from .05 to 3.00 units in steps of approximately .15 – corresponding to 1/2 stop intervals. Great for alternative processes to determine exposure.

Description	Cat. No.	Price
21 Step wedge PT/PD	09-0325	\$15.95
120 Step wedge	09-0330	44.95
4x5 Step wedge	09-0335	54.95

The Formulary carries Crane's a 100% cotton rag paper for use with our alternative process kits!

ALT. PROCESS PAPER

Crane's paper is recommended for alternative process printing by expert printers. It is 100% cotton fiber, acid-free and neutral pH. It is available pre-packaged in 8x10 and 11x14 sizes, as well as full sheets. We can also custom cut to any desired size.

Crane's 90# Kid Finish Cover Paper, Natural White, Wove

Cat. No.	Sheet Size	Sheets/ Pkg.	Price
07-0141	9x11	10	\$ 8.50
07-0142	9x11	25	16.95
07-0143	9x11	50	30.00
07-0146	11.5x14.5	10	9.95
07-0147	11.5x14.5	25	24.95
07-0148	11.5x14.5	50	44.00
07-0151	26x40	10	32.00
07-0152	26x40	25	68.00
07-0153	26x40	50	117.00

FINE ART PHOTO ITEMS

PERFECTA-D PAPER DEVELOPER is a highly concentrated, neutral tone Phenidone-Hydroquinone formula. Unlike other liquid concentrate developers, Perfecta-D Print Developer will obtain the maximum black of the paper. The standard dilution is 1:7, and the shelf life of the concentrate is at least 2 years amazingly, this developer is both stable, long lasting, and a superior performer. Sequestering agents are added to developer to help them mix well - they isolate things in water, like magnesium, calcium, iron, etc. They usually impair the developer's ability to produce a strong black, as will the addition of extra sulfite. Perfecta-D Print Developer contains sequestering agents as well as the additional sulfite, yet it will still obtain maximum black and yield a clean, full tonal scale. How? The chemist that developed it says "...the formula is better." Really? -- Why haven't Kodak and Ilford done this? "Because they don't have me" (the chemist). Modest, aren't you? "No," says the chemist, "modesty is like virginity - it's no fun." Perfecta-D developer can be diluted up to 1:14 and used with longer development times, or used in more concentrated dilutions. Fine Art photographers tend to try different dilutions and times with print developers and Perfecta-D will respond well. Perfecta-D is, amazingly again, quite good with old technology papers as well, like Elegance, although it does not provide the glycin "glow" of VersaPrint II, nor the flexible development options.

To Make a Working Solution	Cat. No.	Price
8 liters	75-0020	\$13.95

VERSAPRINT II is a glycin-based developer. This developer allows great flexibility when printing. VersaPrint II will achieve superior prints with a greater variety of printing papers; specifically, achieving the maximum black of the paper. Also, VersaPrint II at its recommended dilution will obtain the maximum black of the paper with a shorter development time - 2 minutes. It contains no sequestering agents, which impair a developer's ability to achieve a good black. VersaPrint II also imparts fine prints with more of that characteristic "glow" and "shimmer"- typical of glycin developers. One liter of stock solution will process 50 8x10 prints. The stock solution of VersaPrint II is very stable and will last 6 months. You can even reuse the working solution until it has been used to capacity. The unique performance feature of VersaPrint II is the flexibility it allows. Prints can be developed from 2 to 6 minutes.

To Make a Working Solution	Cat. No.	Price
8-16 liters	75-0030	\$26.95

RETURNED TO STOCK

FORMULARY FX-2 produces negatives with a high degree of sharpness and normal grain with the capability of interesting internal effects. Due to the greater definition obtainable with FX-2, grain is less apparent than with D-76. Compared with FX-1, FX-2 produces negatives with finer grain and less acutance, but both have distinctly different pleasing effects. FX-2 used as a stand developer for one hour produces the most interesting internal contrast effects of the FX developers.

To Make a Working Solution	Cat. No.	Price
10 liters (2.5 gal)	01-0085	\$17.95

FORMULARY BEUTLER HIGH ACUTANCE FILM DEVELOPER

is a compensating developer that gives excellent sharpness, medium grain, and low contrast. With 200 ASA or slower films, a high degree of enlargement is possible. Compensation and lower contrast is achieved because more bromide is released in the highlights than in the shadows. The excess bromide in the highlights slows their development relative to the shadow areas where the development continues and brings out the fine details. The net effect is an increase in shadow detail and a decrease in the overall contrast of the negative.

To Make a Working Solution	Cat. No.	Price
1 liters	01-0060	\$9.25

SHEET FILM DEVELOPING TRAYS

FORMULARY 4X5 SHEET FILM DEVELOPING TRAY

Six compartment sheet film developing tray of heavy duty molded plastic with holes on bottom and sides of each compartment for ease of use and better circulation of developer. Made for 4X5 sheet film.

Description	Cat. No.	Price
6 Slot Tray	07-1025	\$59.95

FORMULARY 8X10 SHEET FILM DEVELOPING TRAY

A 4 compartment sheet film developing tray of heavy duty molded plastic with holes on bottom and sides of each compartment for ease of use and better circulation of developer. Made for 8X10 sheet film.

Description	Cat. No.	Price
4 Slot Tray	07-1030	\$89.00

FILM HOLDER SAFETY BAGS

Film Holder Safety Bags made from 6 mil black plastic. They come 5 to a package

Description	Cat. No.	Price
8x10 Film Holder Safety Bags	07-1035	9.95

Description	Cat. No.	Price
4x5 Film Holder Safety Bags	07-1040	4.95

PAPER SAFETY BAGS

paper safety bags, for 8X10 paper, 6 mil black plastic. We can customize these for a few larger sizes in the length as the width is pre-set.

Description	Cat. No.	Price
8x10 Paper Safety Bags	07-1045	6.95

ALTERNATIVE LIGHT BOX

We've just added UV light boxes to our store!

Bud has them built and ready to go. They're UV light boxes for the alternative processes, large enough to expose images up to 16x20". When it's dark outside, or when the sun refuses to shine, these babies will give you consistent, predictable results. No more ruined prints because the sun decides to hide behind a cloud, no more extended exposure times because you live above the Arctic Circle.

The light boxes are powered by (12) 24" UV tubes, which are shipped with the unit.

Description	Cat. No.	Price
UV Light Box	12-0590	\$795.00

STORAGE TANKS

Storage of larger volume chemicals made of extra heavy translucent polyethylene for rigidity and easy viewing of liquid levels. Comes with fast flow faucet.

Description	Cat. No.	Price
2 Gallon	14-0505	\$24.95
5 Gallon	14-0507	\$28.95
15 Gallon	14-0508	\$45.95

PREMIER TANK FLOATING LIDS

Prevents oxidization. An accessory to the storage tank.

Description	Cat. No.	Price
2 Gallon	14-0506	\$6.95
15 Gallon	14-0509	\$7.95

FA-1027 FILM DEVELOPER

FA-1027 is a "high acutance" developer. It produces a "hard edge" in the grain structure of negatives. This gives an impression of great sharpness and clarity. Ansel Adams refers to acutance as "edge sharpness" within the image (*The Negative, Little Brown & Co, 1981.*). While not a "fine grain" developer per se, the grain edge sharpness does give the impression of fine grain in prints. This effect is similar to those in developers such as HC-110 (with Tri-X), but without the distressing high contrast characteristics of that developer; that is, the gloomy darkening of all values below the mid tones (Zone VI). FA-1027 produces a very fine negative with Ilford HP-5 film, for example. There is a very distinct high value separation in Zones VI and above. In Zones V and below, there is just as impressive a separation, without the dumping of those values into murky darkness; as is the case with the Tri-X/HC-110 effect.

To Make a Working Solution	Cat. No.	Price
10 liters	75-0010	14.95

LIQUIDOL DEVELOPER

The New Paper Developer From Bill Troop and Ron Mowrey Liquidol is a revolutionary new print developer that features exceptionally long shelf life, tray life, and high capacity, along with the convenience of a 1:9 liquid concentrate, thanks to the incorporation of a novel use of electron transfer technology not previously employed in print developers. This new technology lets us sustain the development process by using an activating and regenerative element which by itself would not have sufficient photographic activity. Taking this approach allows us more closely to approach the elusive goal of attaining consistent tone and contrast throughout the print run, making this developer especially valuable for consistent batch processing.

To Make a Working Solution	Cat. No.	Price
5 liters	02-0200	\$9.95
10 liters	02-0210	15.95
20 liters	02-0215	25.95

ALTERNATIVE PROCESS BOOKS, ESTAR MELENEX FILM BASE & LABWARE

Laser Holography – Experiments

Cat. no. 08-0040 **\$9.95**

Experiments you can do. A 32 page pamphlet that is a very good starter book on holography. Basic but thorough, it gives experiments you can do to set up for basic holography.

Book of Pyro

Cat. no. 08-0080 **\$31.95**

by Gordon Hutchings. After many years of research and testing Gordon has produced this “must-have” manual for pyro users. A complete history and working practices of Pyro formulas.

Four Corners Country - Dick Arentz

Cat. no. 08-0094 **\$29.95**

Although color studies of the Western landscape can be spectacular, Dick Arentz proves that black-and-white photography offers a crystalline purity all its own. Anyone with an appreciative eye can enjoy the delicate depth and clarity of these images.

The Grand Tour - Dick Arentz

Cat. no. 08-0095 **\$29.95**

The Grand Tour is informed by earlier works of Dick Arentz, but concentrates on the great cities and monuments of European and classical cultures. Arentz has captured picturesque, even bucolic scenes that appear unchanged from a century ago.

Polaroid Transfers – Kathleen T. Carr

Cat. no. 08-0101 **\$35.00**

This comprehensive guide reveals how to create image and emulsion transfers. Polaroid Transfers explains various transfer methods step-by-step and provides detailed pictures to illustrate the sequential instructions. Amphoto Books.

Estar Melenex Film Base

DuPont's 583 Estar 7Mil Subbed Film is pre-coated with a substrate that holds onto the emulsion. This is the same material that Ron Mowrey a Photo Engineer uses in his workshops to show & coat his film emulsions. We are offering the over-size sheets to allow for edge coating flaws and you can trim to fit your needs. The film is subbed on one side and we will corner clip upper right hand corner to distinguish subbed up side.

Cat. No.	Sheet Size	Sheets/ Pkg.	Price
09-0425	36"x52"	1 Roll	\$ 30.60
09-0426	60"x52"	1 Roll	45.80
09-0427	120"x52"	1 Roll	65.90

This ships by itself in a tube.

APPARATUS & LAB WARE

Description	Cat. No.	Price
Dial Thermometer	09-0005	\$ 9.95
Thermometer, Combined Scale	09-0020	12.00
Stirrer, plastic	09-0025	3.50
Graduated Cyl., plastic, 10 ml	09-0030	6.50
Graduated Cyl., glass, 10 ml	09-0035	6.55
Graduated Cyl., plastic, 25 ml	09-0040	7.25
Graduated Cyl., glass, 25 ml	09-0045	7.25
Graduated Cyl., plastic, 50 ml	09-0050	9.95
Graduated Cyl., glass, 50 ml	09-0055	7.95
Graduated Cyl., plastic, 100 ml	09-0060	13.95
Graduated Cyl., glass, 100 ml	09-0065	9.95
Graduated Cyl., plastic, 250 ml	09-0070	16.50
Graduated Cyl., glass, 250 ml	09-0075	12.95
Graduated Cyl., plastic, 500 ml	09-0080	18.95
Graduated Cyl., glass, 500 ml	09-0082	28.95
Graduated Cyl., plastic, 1000 ml	09-0083	23.95
Graduated Cyl., plastic, 2000 ml	09-0085	47.95
Beaker, glass, 30 ml	09-0086	6.95
Beaker, glass, 100 ml	09-0087	7.50
Beaker, plastic, 250 ml	09-0088	6.95
Beaker, glass, 250 ml	09-0089	7.95
Beaker, plastic, 500 ml	09-0090	6.95
Beaker, glass, 50 ml	09-0091	6.95
Beaker, plastic, 50 ml	09-0092	3.95
Beaker, glass, 600 ml	09-0095	7.95
Beaker, plastic, 1000 ml	09-0100	8.95
Beaker, glass, 1000 ml	09-0105	12.95
Beaker, glass, 1000 ml	09-0106	28.95
Beaker, plastic, 2000 ml	09-0110	13.95
Beaker, glass, 2000 ml	09-0115	33.95
Beaker, glass, 2000 ml Ex HD	09-0116	57.95
Beaker, plastic, 3000 ml	09-0120	20.95
Beaker, glass, 4000 ml HD	09-0122	72.95
Beaker, glass, 4000 ml Ex HD	09-0123	97.95
Beaker, plastic, 5000 ml	09-0125	47.95
Dropper, 4 ml	09-0140	1.00
Dropper, 1.5 ml	09-0150	1.00

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OUR 35th YEAR



MORTAR AND PESTLE Porcelain. Great, heavy duty mortars with sides that are up to 1/2 inch thick. The mortars are glazed outside, but rough inside for better grinding, and have a pouring lip. The business ends of the pestles are unglazed, while the shafts are glazed. Very functional, for grinding your own chemicals.

Description	Cat. No.	Price
Mortar and Pestle, 145 ml	09-0130	\$11.50

TYVEK APRON is a unique, non-woven, non-porous material comprised of heat and pressure bonded polyethylene filaments, and is a highly effective contamination control fabric. It is chemically and biologically inert, low linting and static free until it is laundered. Size is 27 X 44

Description	Cat. No.	Price
Tyvek Apron	09-0300	\$5.95

DUST MASK protects against intake of toxic dust and hazardous mists. The 2737 Particulate Respirator Type N95 NIOSH Approved Respirator 42 CFR 84

Description	Cat. No.	Price
2737 Respirator	09-0320	\$1.95

VINYL GLOVES tough, yet inexpensive enough to throw away. Superior hand protection with a keen sense of touch and great dexterity. Seamless design means no splits or leaks and gives added protection when working with chemicals. Ambidextrous. 0.005" gauge. 8" Length. Box of 10, 50, or 100.

Description	Cat. No.	Price
Pack of 10 Small	09-0311	\$4.00
Pack of 10 Medium	09-0312	4.00
Pack of 10 Large	09-0313	4.00
Pack of 50 Small	09-0314	19.00
Pack of 50 Medium	09-0315	19.00
Pack of 50 Large	09-0316	19.00
Pack of 100 Small	09-0317	29.00
Pack of 100 Medium	09-0318	29.00
Pack of 100 Large	09-0319	29.00

MICRO-MIXERS these little mixing syringes are the answer to quick and accurate measurement of small quantities of liquid solutions. Extension tube reaches down to the bottom of narrow-mouth bottles. Reads out in 1 ml increments, simply add the amount of solution needed, and return the rest to the storage container. Sizes include 3 ml, 6 ml, 12 ml, 35 ml and 60 ml.

Description	Cat. No.	Price
3 ml	09-0340	\$3.95
6 ml	09-0345	4.95
12 ml	09-0350	6.95
35 ml	09-0355	7.95
60 ml	09-0360	8.95

OUR 35th YEAR



BOTTLES

Plastic and Amber glass

NOTE: n/m = Narrow Mouth, w/m = Wide Mouth

Cat. No.	Description	Weight	Price
50-0250	Bottle, glass, (n/m, w/ dropper)		
	30 ml	60g	2.45
50-0300	Bottle, glass, (n/m, w/ dropper)		
	60 ml	110g	2.95
50-0400	Bottle, glass, (n/m, amber)		
	125 ml	101g	1.65
50-0450	Bottle, glass, (n/m, w/ dropper)		
	125 ml	130g	3.55
50-0500	Bottle, glass, (n/m, amber)		
	500 ml	250g	2.25
50-0550	Bottle, glass, PVC-Coated (n/m, amber)		
	500 ml	300g	8.00
50-0600	Bottle, glass, (n/m, amber)		
	30 ml	60g	1.55
50-0700	Bottle, glass, (n/m, amber)		
	60 ml	65g	1.55
50-0900	Bottle, glass, (n/m, amber)		
	250 ml	201g	1.75
50-1200	Bottle, glass, (n/m, amber)		
	1000 ml	250g	4.50
50-1220	Jug, glass, (n/m, amber)		
	1 gallon	4.0 lb	13.50
50-1230	Jug, glass, (n/m, amber)		
	1/2 gal	1.9 lb	7.00
50-1250	Bottle, plastic, (w/m, w/ cap)		
	500 ml	42g	1.35
50-1252	Bottle, plastic, (n/m, w/ cap)		
	30 ml	30g	.99
50-1255	Bottle, plastic, (w/m, w/ cap)		
	60 ml	15g	1.10
50-1257	Bottle, Black plastic, (n/m, w/ cap)		
	60 ml	15g	1.40
50-1260	Bottle, plastic, (n/m, w/ cap)		
	125 ml	20g	1.10
50-1261	Bottle, Black plastic, (n/m, w/ cap)		
	125 ml	20g	1.40
50-1262	Bottle, Black plastic, (n/m, w/ cap)		
	500 ml	50g	1.95
50-1265	Bottle, plastic, (n/m, w/ cap)		
	240 ml	50g	1.25
50-1270	Bottle, plastic, (n/m, w/ cap)		
	500 ml	50g	1.35
50-1280	Bottle, plastic, Black (w/m, w/ cap)		
	30 ml	50g	1.10
50-1300	Bottle, plastic, (n/m, w/ cap)		
	950 ml	68g	1.65
50-1400	Bottle, plastic, Black (n/m, w/ cap)		
	1000 ml	68g	2.15
50-1410	Bottle, plastic, Amber (n/m, w/ cap)		
	1000 ml	68g	.95
50-1500	Jar, plastic, white (w/m, w/ cap)		
	950 ml	68g	1.75
50-1520	Jug, plastic, (n/m, w/ cap)		
	1/2 gal	150g	1.95
50-1523	Jug, plastic, Amber (n/m, w/ cap)		
	1/2 gal	150g	2.25
50-1525	Jug, plastic, (n/m, w/ cap)		
	1 gal	300g	2.35

PHOTOGRAPHERS' FORMULARY^{INC.}

METRIC MEASUREMENTS MADE EASY

SPOONFULS

1/4 TSP.....	1.25 milliliters
1/2 TSP.....	2.5 milliliters
3/4 TSP.....	3.75 milliliters
1 TSP.....	5 milliliters
1/4 TBS.....	3.75 milliliters
1/2 TBS.....	7.5 milliliters
3/4 TBS.....	11.25 milliliters
1 TBS.....	15 milliliters

OUNCES

1/4 oz.....	7.5 milliliters
1/2 oz.....	15 milliliters
3/4 oz.....	22.5 milliliters
1 oz.....	30 milliliters

DRAMS

1 fluid dram.....	1/8 fluid oz.
1 fluid oz.....	8 fluid drams
1 fluid dram.....	3.697 milliliters

CUPS

1/4 cup.....	59 milliliters
1/3 cup.....	78 milliliters
1/2 cup.....	118 milliliters
2/3 cup.....	157 milliliters
3/4 cup.....	177 milliliters
1 cup.....	236 milliliters

PINTS-QUARTS-GALLONS

1/2 pint.....	236 milliliters
1 pint.....	473 milliliters
1 quart.....	946.3 milliliters
1 gallon.....	3785 milliliters

WEIGHT IN OUNCES

1/4 oz.....	7.1 grams
1/2 oz.....	14.17 grams
3/4 oz.....	21.27 grams
1 oz.....	28.35 grams

WEIGHT IN DRAMS

1 dram.....	27.344 grains... 1.772 grams
1 oz.....	16 drams 437.5 grains
1 gram.....	15.432 grains

POUND-GRAMS

1/4 lb.....	113 grams
1/2 lb.....	227 grams
3/4 lb.....	340 grams
1 lb.....	454 grams
1 Kilogram.....	2.205 lbs

LENGTH

1 inch.....	2.54 centimeters
1 foot.....	30.48 centimeters
1 yard.....	91.44 centimeters
100 feet.....	30.48 meters
1 mile.....	1.609 kilometers

TEMPERATURE

32°F.....	0° Celsius
68°F.....	20° Celsius
212°F.....	100° Celsius

Celsius to Fahrenheit = $((C^{\circ} \times 9) \div 5) + 32^{\circ}$

Fahrenheit to Celsius = $((F^{\circ} - 32^{\circ}) \times 5) \div 9$

SQUARE MEASURE

1 sq. in.....	6.452 sq. cm
1 sq. ft.....	929 sq. cm

Having trouble getting rid of those developer and fixer stains?

Try our

Liquid Clothing Stain Remover!

(See page 15...)

PHOTOGRAPHERS' FORMULARY

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(Subject to change without notice)

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(*May require hazard shipping charge)

Cat. No. Name of Formula To Make Weight Price

FORMULARY FILM

DEVELOPERS

01-0020	Formulary Universal Concentrate	5-20 lt	303g	13.55
01-0030	Formulary Film Developer 3	8-10 lt	218g	13.45
01-0035	Formulary Substitute for D-19	1 lt	207g	11.95
01-0040	Formulary Film Developer 23	1 lt	142g	8.95
01-0050	Formulary Film Developer 23	2 lt	249g	12.45
01-0051	Formulary Film Developer 23	4 lt	482g	15.95
01-0053	Formulary D-25 Fine Grain	1 lt	165g	10.95
01-0054	Formulary D-25 Fine Grain	2 lt	215g	13.95
01-0055	Formulary D-25 Fine Grain	4 lt	550g	17.95
01-0057	Formulary Replenisher DK-25R	1 lt	167g	10.75
01-0060	Formulary Buettler High Acutance	1 lt	175g	9.25
01-0065	Formulary TD-3 Technical Pan (Liquid)	10 lt	360g	12.95
01-0066	Formulary TD-3 Technical Pan (Liquid)	20 lt	2.6 lb	16.95
01-0067	Formulary TD-3 Technical Pan (Liquid)	40 lt	5 lb	24.95
01-0070	Phenidone Extended Range (POTA)	1 lt	65g	8.95
01-0075	Formulary Modi POTA (Delagi #8)	1 lt	68g	11.95
01-0080	Formulary FX-1 High Acutance Dev	10 lt	201g	16.75
01-0085	Formulary FX-2 High Acutance Dev	10 lt	380g	17.95
01-0090	Formulary TFX-2 High Definition (Liquid)	10 lt	2.5 lb	14.85
01-0091	Formulary TFX-2 High Definition (Liquid)	20 lt	5 lb	22.95
01-0092	Formulary TFX-2 High Definition (Liquid)	40 lt	10 lb	36.75
01-0100	Formulary Windisch Catechol	25-40 lt	264g	16.95
01-0105	Formulary Modi Windisch Catechol	40 lt	173g	11.95
01-0110	DK-50 Film Developer	1 lt	90g	9.95
01-0112	Formulary Developer DK-50	4 liter	200g	26.95
01-0115	D-50R Replenisher	1 lt	90g	9.95
01-0120	Formulary ABC Pyro Developer	5 lt	173g	22.95
01-0130	Formulary ABC Pyro Developer	10 lt	320g	32.95
01-0140	Wimberley's WD2D Pyro-Metol	8 lt	85g	16.95
01-0150	Wimberley's WD2D Pyro-Metol	16 lt	128g	27.95
01-0155	Wimberley's WD2D Plus Pyro-Metol (Liquid)	50 lt	4.8 lb	27.45
01-0156	Wimberley's WD2D Plus Pyro-Metol (Liquid)	25 lt	2.8 lb	16.45

01-0158	Wimberley's WD2D Plus Pyro-Metol	50 lt	1 lb	27.45
01-0190	Formulary Amidol Film Developer	1 lt	71g	12.35
01-0200	Formulary MCM-100 Film Developer	1 lt	247g	16.40
01-0201	Formulary MCM-100 Film Developer	2 lt	371g	24.15
01-0210	Formulary Film Developer 12	1 lt	159g	15.50
01-0211	Formulary Film Developer 12	2 lt	365g	20.65
01-0270	Formulary TD-16 (Improved D-76)	1-4 lt	145g	7.95
01-0271	Formulary TD-16 (Improved D-76)	4-16 lt	1.5 lb	11.45
01-0272	Formulary TD-16 (Improved D-76)	8-32 lt	2.0 lb	15.95
01-0273	Formulary TD-16 Replenisher	1 lt	159g	8.95
01-0300	Formulary Divided D-76 Developer	1 lt	238g	10.25
01-0302	Formulary Divided D-76 Developer	2 lt	417g	12.95
01-0304	Formulary Divided D-76 Developer	4 lt	1.7 lb	16.75
01-0500	Formulary BW-2 T-MAX Developer (Liquid)	2.5 lt	2.6 lb	9.95
01-0505	Formulary BW-2 T-MAX Developer (Liquid)	5 lt	5 lb	14.75
01-0506	Formulary BW-2 T-MAX (sol. B only) (Liquid)	5 lt	2.5 lb	7.95
01-0507	Formulary BW-2 T-MAX (sol. A only) (Liquid)	5 lt	2.5 lb	9.50
01-0508	Formulary BW-2 T-MAX Developer (Liquid)	2 1/2 gal	10 lb	21.95
01-0510	Formulary BW-2 T-MAX Developer (Liquid)	5 gal	19 lb	28.25
01-0600	Reversal Process for T-MAX	for 4 rolls	1.5 lb	28.75
01-0800	Formulary BW-44 Film Developer (Liquid)	5 lt	2.5 lb	9.95
01-0810	Formulary BW-44 Film Developer (Liquid)	2.5 gal	4.6 lb	12.95
01-0811	Formulary BW-44 Film Developer (Liquid)	5.2 gal	9 lb	17.95
01-0812	Formulary BW-44 Film Developer (Liquid)	10.5 gal	17.7 lb	26.95
01-0813	Formulary BW-44 Liquid Developer (Liquid)	26 gal	37 lb	39.00
01-0814	Formulary BW-44 Liquid Developer (Liquid)	52 gal	74 lb	72.00
01-1300	Formulary Kodalith Developer	2 lt	320 g	15.95
01-1330	Formulary Kodalith Developer	4 lt	320 g	18.50
01-1350	Formulary Kodalith Developer	8 lt	1.25 lb	22.95
01-5000	Pyro Triethanolamine Film Dev.	8 lt	445g	25.95
01-5005	Barry Thornton's Exactol Lux Liq (Liquid)	10 lt	1.6 LB	16.95
01-5010	Precysol Liq (Liquid)	10 lt	227g	15.95
01-5015	Precysol EF Liq (Liquid)	10 lt	1.6 LB	15.95
01-5016	Precysol EF Liq (Liquid)	50 lt	2.5 LB	39.95
01-5030	Barry Thornton's DiXactol Liq (Liquid)	10 lt	1.6 LB	19.95

01-5031	Barry Thornton's DiXactol Liq (Sol B Only)	10 lt	1.6 LB	19.95
01-5035	Barry Thornton's DiXactol Ultra Liq	10 lt	1.6 LB	19.95
01-5036	Barry Thornton's DiXactol Ultra Liq (Sol B Only)	10 lt	1.6 LB	19.95
01-5045	PMK Pyro Metol Kodak (Dry kit)	25 lt	.5 lb	18.95
01-5050	PMK Pyro Metol Kodak (Dry kit)	50 lt	1.0 lb	30.95
01-5060	Liquid PMK Pyro Metol Kodak (Liquid)	50 lt	4.0 lb	30.95
01-5070	ABC Plus Pyro (Rollo Pyro)	33 lt	1.0 lb	23.00
01-5075	DI-13 Film Developer	5 lt	178 g	19.95
01-5080	Pyro-cat HD Film developer	10 lt	159 g	14.50
01-5081	Pyro-cat HD Film dev Liquid (Liquid)	10 lt	360 g	14.50
01-5082	Pyro-cat HD Film developer	50 lt	1.25 lb	29.50
01-5083	Pyro-cat HD Film dev Liquid (Liquid)	50 lt	2.6 lb	29.50
01-5085	Harvey's Defender 777	1 lt	125g	11.95
01-5091	Pyro-cat HD In Glycol Film dev Liq (Liquid)	10 lt	360 g	14.50
01-5093	Pyro-cat HD In Glycol Film dev Liq (Liquid)	50 lt	2.6 lb	29.50
01-5095	Pyro-cat MC In Glycol Film dev Liq (Liquid)	10 lt	360 g	14.50
01-5096	Pyro-cat MC In Glycol Film dev Liq (Liquid)	50 lt	2.6 lb	29.50
01-5097	Pyro-cat MC In Glycol Film dev Liq (Liquid)	100 lt	4.8 lb	39.95
01-6000	50 lt Dry PMK kit and Book of Pyro	50 liter	2.0 lb	57.90
01-6005	50 lt Liquid PMK kit and Book of Pyro (Liquid)	50 liter	5.0 lb	57.90
75-0010	FA-1027 Film Developer (Liquid)	10 lt	1.75 lb	14.95

FORMULARY PAPER DEVELOPERS

02-0010	Formulary Weston's Amidol Paper Developer	1-10 lt	105g	19.95
02-0020	Formulary Weston's Amidol Paper Developer	2-20 lt	156g	23.95
02-0021	Formulary Weston's Amidol Paper Developer	4-40 lt	284g	43.95
02-0030	Formulary Amidol Paper Developer	1-10 lt	108g	17.50
02-0040	Formulary Amidol Paper Developer	2-20 lt	159g	23.50
02-0041	Formulary Amidol Paper Developer	4-40 lt	286g	34.50
02-0042	Amidol Developer AZO Paper	1 lt	159g	12.95
02-0043	Amidol Developer AZO Paper	3 lt	286g	24.00
02-0045	Formulary TD-30 Improved Dektol	1-2 lt	170g	9.95
02-0046	Formulary TD-30 Improved Dektol	4-8 lt	587g	11.45
02-0047	Formulary TD-30 Improved Dektol	8-16 lt	2.5 lb	19.50

PHOTOGRAPHERS' FORMULARY INC.

PAPER DEVELOPERS CONT.

02-0050	106 Warm-tone Paper Developer	4 lt	215g	12.75
02-0060	106 Warm-tone Paper Developer	8 lt	354g	16.50
02-0061	106 Warm-tone Paper Developer	16 lt	1.4 lb	21.50
02-0065	Formulary BW-65 Liquid Developer	(Liquid) 3-6 lt	2.5 lb	9.95
02-0066	Formulary BW-65 Liquid Developer	(Liquid) 6-12 lt	4.8 lb	14.95
02-0067	Formulary BW-65 Liquid Developer	(Liquid) 3.2 gal to 6.4 gal	9.5 lb	19.95
02-0068	Formulary BW-65 Liq. Developer	(Liquid) 6.4 gal to 12.5 gal	18.5 lb	26.50
02-0069	Formulary BW-65 Liq. Developer	(Liquid) 12.5 gal to 25 gal	38 lb	46.95
02-0070	Formulary 130 Paper Developer	(1 lt stock) 2-3 lt	221g	13.25
02-0080	Formulary 130 Paper Developer	(2 lt stock) 4-6 lt	380g	19.95
02-0090	Formulary 130 Paper Developer	(4 lt stock) 8-12 lt	1.5 lb	24.50
02-0092	Formulary 130 Paper Developer	(8 lt stock) 16-24 lt	3.0 lb	39.95
02-0100	Formulary 120 Low Contrast Paper Developer	3 lt	128g	11.95
02-0110	Formulary 120 Low Contrast Paper Developer	6 lt	213g	16.50
02-0112	Formulary TD-31 Sub Selectol Soft®	2-4 lt	119g	9.95
02-0113	Formulary TD-31 Sub Selectol Soft®	4-8 lt	240g	15.95
02-0116	Formulary TD-32 Sub Selectol®	2-4 lt	142g	9.95
02-0117	Formulary TD-32 Sub Selectol®	4-8 lt	285g	15.95
02-0118	Formulary D-52 Selectol®	1-2 lt	142g	9.95
02-0119	Formulary D-52 Selectol®	2-4 lt	285g	15.95
02-0120	Dr. Beers Variable Contrast Dev	2-4 lt	198g	14.95
02-0130	Dr. Beers Variable Contrast Dev	4-8 lt	316g	19.95
02-0150	Formulary 102 Paper Developer	4 lt	264g	11.95
02-0180	Formulary 120ED High Contrast Dev	2 lt	204g	13.95
02-0200	Liquidol Paper Developer	(Liquid) 5 lt	1.4 lb	9.95
02-0210	Liquidol Paper Developer	(Liquid) 10 lt	2.8 lb	15.95
02-0215	Liquidol Paper Developer	(Liquid) 20 lt	5.6 lb	25.95

FINE ART PHOTO PRODUCTS

75-0010	FA-1027 Film Developer	(Liquid) 10 lt	1.75 lb	14.95
75-0020	Perfecta-D Paper Developer	(Liquid) 8-15 lt	2.8 lb	13.95
75-0030	Versaprint II Paper Developer	4 lt	1.6 lb	26.95
75-0040	ArtFix	4 lt	1.6 lb	10.97
75-0050	Versaprint II Paper Developer	12 lt	1.6 lb	29.65
75-0060	Plain Hypo Fixer	8 lt	2.5 lb	21.50
75-0030	Versaprint II Paper Developer	4 lt	1.6 lb	26.95
75-0935	Quick Exposure Record	4 pads	1.6 lb	19.00
75-0940	Print Record Sheets	4 pads	1.6 lb	19.00
09-0302	Invisible Glove	5 Oz	1.6 lb	7.95

FIXERS, STOP BATHS & TEST SOLUTIONS

03-0010	Formulary Fixer 24	1 lt	227g	9.95
03-0020	Formulary Fixer 24	2 lt	431g	12.95
03-0040	Formulary Fixer 24	4 lt	1.75 lb	15.95
03-0141	Formulary TF-4 Archival Rapid Fix	(Liquid) Ship 1 qt., makes 1 gal	3 lb	10.95
03-0142	Formulary TF-4 Archival Rapid Fix	(Liquid) Ship 1 gal., makes 4 gal	12 lb	29.95
03-0143	Formulary TF-4 Archival Rapid Fix	(Liquid) Ship 2 gal., makes 8 gal	24 lb	53.95
03-0144	Formulary TF-4 Archival Rapid Fix	(Liquid) Ship 4 gal., makes 16 gal	48 lb	86.50
03-0145	Formulary TF-4 Archival Rapid Fix	(Liquid) Ship 1/2 gal., makes 2 gal	6 lb	19.95
03-0146	Formulary Rapid Fix With Hardener	4-8 lt	3.4 lb	12.95
03-0147	Formulary TAF-1 Print Improver	13 gal	40g	6.95
03-0150	Formulary Residual Hypo Test	(Liquid) 100 ml	167g	17.95
03-0160	Formulary Residual Hypo Test	(Liquid) 200 ml	277g	25.95
03-0161	Formulary Residual Hypo Test	(Liquid) 1 lt	2.5 lb	36.95
03-0165	Formulary Hypo Clear Agent	2.5 gal	241g	5.95
03-0170	Formulary Residual Silver Test	10 lt	37g	9.95
03-0180	Formulary Fixer Test (FT-1)	100 ml	48g	9.95
03-0185	Formulary Indicator Stop Bath*	(Liquid) 8 gal	1.25 lb	7.95
03-0186	Formulary Indicator Stop Bath*	(Liquid) 16 gal	2.5 lb	10.95
03-0188	Formulary TS-4 Odor-Free Stop Bath	10 lt	352 g	9.95
03-0189	Formulary TS-4 Odor-Free Stop Bath	1 lt	60g	6.95
03-0190	Formulary Bromocresol Indicator	(Liquid) 100 ml	108g	7.50
03-0195	Form-a-flo Solution	(Liquid) 4 oz	142g	3.95
03-0196	Form-a-flo Solution	(Liquid) 8 oz	284g	4.95
03-0200	Formulary TF-5 Archival Rapid Fix	(Liquid) Ship 1 qt., makes 1 gal	2.5 lb	10.95
03-0201	Formulary TF-5 Archival Rapid Fix	(Liquid) Ship 1 gal., makes 4 gal	8 lb	25.95
03-0202	Formulary TF-5 Archival Rapid Fix	(Liquid) Ship 2 gal., makes 8 gal	20 lb	45.95
03-0203	Formulary TF-5 Archival Rapid Fix	(Liquid) Ship 4 gal., makes 16 gal	38 lb	73.95

HOLOGRAPHY & COLOR DEVELOPERS

04-3010	Holography Film Developer JD-2	To develop 20 plates	331g	16.95
04-3011	Holography Film Developer JD-2x10	To develop 200 plates	6.8 lb	85.00
04-3020	Holography Film Developer JD-3	To develop 20 plates	337g	16.95
04-3025	Holography Film Processing JD-3x10	To develop 200 plates	6.8 lb	85.00
04-3030	Holography Film Developer GP-2	To develop 20 plates	185g	16.95
04-3040	Holography Film Developer JD-4	To develop 20 plates	340g	16.95
04-3045	Holography Film Processing JD-4x10	To develop 200 plates	6.8 lb	85.00
04-3050	Hologram Developer HD-602	To develop 100 plates	411g	34.95

REDUCERS, INTENSIFIERS, ADDITIVES & CLEANERS

05-0010	Formulary Reducer I for negatives	1 lt	454g	14.95
05-0020	Formulary Reducer II for negatives	1 lt	147g	13.95
05-0030	Formulary Reducer III for negatives	2-4 lt	111g	14.95
05-0040	Formulary Reducer IV for negs.	1 lt	80g	10.95
05-0060	Formulary Spotting Reducer II (farmers)	375 ml	125g	9.95
05-0065	Formulary Chromium Intensifier	2.75 gal	224g	13.95
05-0070	Formulary Silver Intensifier	1.5 liter	289g	49.95
05-0080	Formulary Silver Intensifier	3 liter	354g	73.95
05-0105	Clothing Stain Remover	(Liquid) 8 oz	301g	10.95
05-0106	Clothing Stain Remover	(Liquid) 1/2 gal (64 oz)	4.7 lb	32.95
05-0130	Handi-Pads Photo Wipes	20 4 x 4 in.	120g	2.50
05-0145	Generix Film/Neg Cleaner*	(Liquid) 1 oz.	120g	4.95
05-1000	EXCEL Film Enhancer	(Liquid) 4 oz	159g	7.95
05-1010	EXCEL Film Enhancer	(Liquid) 32 oz	2.6 lb	14.95
05-6000	CRONE:C Film Additive*	(Liquid) 4 oz	130g	11.95
05-6010	CRONE:C Film Additive*	(Liquid) 32 oz	2.1 lb	29.95

FORMULARY TONERS

06-0010	Formulary Copper Toner	2 lt	102g	10.95
06-0020	Formulary Iron Blue Toner	1 lt	106g	14.95
06-0035	Formulary Sepia Sulfide 221	1 lt	193g	12.95
06-0045	Formulary Thiourea Toner	1 lt	147g	15.50
06-0100	Formulary Hypo-Alum Sepia	1 lt	221g	16.95
06-0110	Formulary Hypo-Alum Sepia	2 lt	417g	19.95
06-0120	Formulary Nelson Gold Toner	1 lt	306g	73.95
06-0130	Formulary Nelson Gold Toner	2 lt	443g	109.95
06-0140	Formulary Nelson Gold Toner	4 lt	1.8 lb	169.95
06-0170	Formulary Gold Protective Toner	1 lt	79g	31.95
06-0180	Formulary Gold Protective Toner	10 lt	164g	118.95
06-0190	Formulary Polysulfide Toner	1 lt	54g	12.95
06-0200	Formulary Iron Green/Blue Toner	1-10 lt	94g	20.95
06-0210	Formulary Gold 231 Toner	1 lt	338g	74.95
06-0211	Formulary Gold 231 Toner w/o Fix	1 lt	126g	59.95
06-0220	Formulary POP Gold Toner	1 lt	79g	32.95
06-0230	Formulary CAW/POP Toner	1 lt	445g	104.95
06-0240	Formulary POP Combined Gold Toner-Fixer	1 lt	204g	34.95
06-0250	Formulary POP Lead Gold Combined Toner-Fixer	1 lt	340g	76.95

ALTERNATIVE PROCESSES

07-0010	Sensitizer A for Pt/Pd Printing	30 ml	96g	13.25
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PHOTOGRAPHERS' FORMULARY INC.

ALTERNATIVE PROCESSES CONT.

07-0022	Sensitizer B for Pd Printing 30 ml 125g	15.30
07-0023	Sensitizer B for Pt Printing 30 ml 125g	15.30
07-0024	Citric Acid, 30 gram replacement 30g	4.99
07-0028	Potassium oxalate 227g for Pt/Pd 227g	18.95
07-0070	Formulary Kallitype kit 30 4x5 482g	55.95
07-0080	Formulary Van Dyke Printing kit 25 8x10 142g	46.95
07-0090	Formulary Cyanotype kit 24 8x10 227g	19.95
07-0091	Formulary Liquid Cyanotype kit 24 8x10 2.6 lb	19.95
07-0095	Formulary New Cyanotype kit 50 8x10 95g	19.95
07-0100	Classical Gum Bichromate kit 35-40 8x10 482g	27.95
07-0105	Contemporary Gum Bichromate kit 35-40 8x10 502g	39.95
07-0110	Formulary Salted Plain POP kit 20 8x10 198g	60.95

GLASS COATING RODS

07-0270	Puddle Pusher glass rod 5 x 7 size sheet 1 for 5 x 7	205 g	18.00
07-0280	Puddle Pusher glass rod 8 x 10 size sheet 1 for 8 x 10	273 g	21.95
07-0290	Puddle Pusher glass rod 11 x 14 size sheet 1 for 11 x 14	377 g	26.95

MICRO-MIXERS

These little mixing syringes are the answer to quick and accurate measurement of small quantities of liquid solutions. Extension tube reaches down to the bottom of narrow-mouth bottles. Reads out in 1 ml increments, simply add the amount of solution needed, and return the rest to the storage container. Sizes include 3 ml, 6 ml, 12 ml, 35 ml and 60 ml.

09-0340	3 ml	3.95
09-0345	6 ml	4.95
09-0350	12 ml	6.95
09-0355	35 ml	7.95
09-0360	60 ml	8.95

CRANE'S PLATINOTYPE PAPER

FOR

ALTERNATIVE PROCESSES

07-0141	Crane's 90# Cover 100% cotton rag alt. process paper (Platinotype) 10 9x11 sheets	4 lb	8.50
07-0142	Crane's 90# Cover 100% cotton rag alt. process paper (Platinotype) 25 9x11 sheets	1.0 lb	16.95
07-0143	Crane's 90# Cover 100% cotton rag alt. process paper (Platinotype) 50 9x11 sheets	2.0 lb	30.00
07-0146	Crane's 90# Cover 100% cotton rag alt. process paper (Platinotype) 10 11.5x14.5 sheets	.8 lb	9.95
07-0147	Crane's 90# Cover 100% cotton rag alt. process paper (Platinotype) 25 11.5x14.5 sheets	1.6 lb	24.95
07-0148	Crane's 90# Cover 100% cotton rag alt. process paper (Platinotype) 50 11.5x14.5 sheets	3.2 lb	44.00
07-0151	Crane's 90# Cover 100% cotton rag alt. process paper (Platinotype) 10 26x40 sheets	2.4 lb	32.00
07-0152	Crane's 90# Cover 100% cotton rag alt. process paper (Platinotype) 25 26x40 sheets	6.0 lb	68.00
07-0153	Crane's 90# Cover 100% cotton rag alt. process paper (Platinotype) 50 26x40 sheets	12.0 lb	117.00

Call for additional sizes

CONTACT PRINTING FRAMES &

UNFINISHED FRAMES

07-2000	Contact Print Frame 8x10 3.5 lb	59.95
07-2005	Contact Print Frame 11x14 6. lb	70.95
07-2010	Contact Print Frame 16x20 10.0 lb	92.95
07-2020	Contact Print Frame 20x24 15.0 lb	109.95
07-2025	11 X 14 Unfinished Oak Picture Frame 1.7 lb	12.95

BOOKS

08-0040	Laser Holography - Experiments 50 g	9.95
08-0080	Book of Pyro by Gordon Hutchings 454 g	31.95
08-0094	Four Corners Country 435 g	29.95
08-0095	The Grand Tour 389 g	29.95
08-0101	Polaroid Transfers 596 g	35.00

SHEET FILM DEVELOPING TRAYS

FORMULARY 4X5 & 8X10 SHEET FILM DEVELOPING TRAY

Six compartment sheet film developing tray of heavy duty molded plastic with holes on bottom and sides of each compartment for ease of use and better circulation of developer. Made for 4X5 sheet film.

Description	Cat. No.	Price
6 Slot Tray	07-1025	\$59.95

A 4 compartment sheet film developing tray of heavy duty molded plastic with holes on bottom and sides of each compartment for ease of use and better circulation of developer. Made for 8X10 sheet film.

Description	Cat. No.	Price
4 Slot Tray	07-1030	\$89.00

GLOVES & LAB WARE

09-0005	Dial Thermometer 45 g	9.95
09-0020	Thermometer, Combined Scale (Celsius and Fahrenheit) 35 g	12.00
09-0025	Stirrer, Plastic 36 g	3.50
09-0030	Graduated Cylinder, Plastic 10 ml 35 g	6.50
09-0035	Graduated Cylinder, Glass 10 ml 35 g	6.55
09-0040	Graduated Cylinder, Plastic 25 ml 20 g	7.25
09-0045	Graduated Cylinder, Glass 25 ml 20 g	7.25
09-0050	Graduated Cylinder, Plastic 50 ml 30 g	9.95
09-0055	Graduated Cylinder, Glass 50 ml 30 g	7.95
09-0060	Graduated Cylinder, Plastic 100 ml 49 g	13.95
09-0065	Graduated Cylinder, Glass 100 ml 49 g	9.95
09-0070	Graduated Cylinder, Plastic 250 ml 82 g	16.50
09-0075	Graduated Cylinder, Glass 250 ml 82 g	12.95
09-0080	Graduated Cylinder, Plastic 500 ml 159 g	18.95
09-0082	Graduated Cylinder, Glass 500 ml 159 g	28.95
09-0083	Graduated Cylinder, Plastic 1000 ml 170 g	23.95
09-0085	Graduated Cylinder, Plastic 2000 ml 170 g	47.95
09-0086	Beaker, Glass, 30 ml 30 ml 170 g	6.95
09-0087	Beaker, Glass, 100 ml 100 ml 170 g	7.50
09-0088	Beaker, Plastic, 250 ml 250 ml 40 g	6.95
09-0089	Beaker, 250 ml, Glass, Pyrex 250 ml 170 g	7.95
09-0090	Beaker, Plastic, 500 ml 500 ml 52 g	6.95
09-0091	Beaker, Glass 50 ml 50 ml 170 g	6.95
09-0092	Beaker, Plastic, 50 ml 50 ml 170 g	3.95
09-0095	Beaker, Glass 600 ml 600 ml 170 g	7.95
09-0100	Beaker, Plastic, 1000 ml 1000 ml 100 g	8.95
09-0105	Beaker, Glass, 1000 ml 1000 ml 100 g	12.95
09-0106	Beaker, Glass, 1000 ml 1000 ml 1.5 lb	28.95
09-0110	Beaker, Plastic, 2000 ml 2000 ml 226 g	13.95
09-0115	Beaker, Glass, 2000 ml 2000 ml 1 lb	33.95
09-0116	Beaker, Glass, 2000 ml Extra Heavy 2000 ml 1.5 lb	57.95
09-0120	Beaker, Plastic, 3000 ml 3000 ml 254 g	20.95
09-0122	Beaker, Glass, 4000 ml 4000 ml 2.5 lb	72.95
09-0123	Beaker, Glass, 4000 ml Heavy Duty 4000 ml 2.75 lb	97.95
09-0125	Beaker, Plastic, 5000 ml 5000 ml 354 g	47.95
09-0130	Mortar & Pestle, Porcelain 145 ml 1.6 lb	11.50
09-0140	Dropper 4 ml	6 g 1.00
09-0150	Dropper 1.5 ml	3 g 1.00
09-0300	Tyvek Apron	207g 5.95
09-0306	Cotton Gloves, White 1 pair	68 g 1.75
09-0311	Vinyl Gloves, small pack of 10 each	82 g 4.00
09-0312	Vinyl Gloves, medium pack of 10 each	109 g 4.00
09-0313	Vinyl Gloves, large pack of 10 each	113 g 4.00
09-0314	Vinyl Gloves, small pack of 50 each	410 g 19.00
09-0315	Vinyl Gloves, medium pack of 50 each	1.2 lb 19.00
09-0316	Vinyl Gloves, large pack of 50 each	1.3 lb 19.00
09-0317	Vinyl Gloves, small pack of 100 each	1.8 lb 29.00
09-0318	Vinyl Gloves, medium pack of 100 each	2.4 lb 29.00
09-0319	Vinyl Gloves, large pack of 100 each	2.6 lb 29.00
09-0320	2737 Respirator	1.95
09-0325	PT/PD Step Tablet each	.07g 15.95
09-0330	120 Step wedge each	35g 44.95
09-0335	4X5 Step wedge each	35g 54.95

OUR 35th YEAR



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(Subject to change without notice)

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10% discount for single-packaged quantities of 5 lbs. or more.
(DOES NOT APPLY TO ITEMS ALREADY PRICED AT THESE QUANTITIES)

(**=Requires hazard shipping charge)
(*=May require hazard shipping charge)

Cat. No. Name of Chemical
Ship Weight Quantity Price

10-0010	Acetic Acid, Glacial*	1.2 lb 1 pint	7.95
10-0015	Acetic Acid, Glacial*	2.5 lb 1 liter	11.95
10-0030	Alum (Potassium Alum)	10 g 3.95 100 g 4.95 1 lb 6.95	
	10-0031	5 lb	24.50
	10-0032	10 lb	41.00
	10-0033	20 lb	69.00
Aluminum Potassium Sulfate, see Alum (10-0030)			
10-0035	Aluminum Sulfate	10 g 3.95 100 g 4.95 1 lb 6.95	
10-0040	Amidol*	10 g 7.99 30 g 21.50 100 g 49.50 1/2 lb 105.00	
10-0050	p-Aminophenol*	10 g 5.45 100 g 10.95 1 lb 39.95	
10-0060	p-Aminophenol Hydrochloride	10 g 4.95 100 g 12.95 1 lb 41.05	
10-0070	Ammonia, 28%*	1.0 lb 1 pt	9.95
10-0080	Ammonia, 28%*	115 g 100 ml	7.95
10-0090	Ammonium Aluminum Sulfate	10 g 3.95 100 g 4.95 1 lb 8.95	
Ammonium Bichromate, see Ammonium Dichromate (10-0120)			
10-0100	Ammonium Bromide	10 g 6.95 100 g 39.50	
10-0120	Ammonium Dichromate*	10 g 5.95 30 g 10.95 100 g 15.95 1 lb 68.95	
Ammonium Hydroxide, see Ammonia 28% (10-0070)			
10-0130	Ammonium Chloride	10 g 3.95 100 g 4.95 1 lb 6.95	
10-0140	Ammonium Lauryl Sulfate, 30%	10 g 5.75 100 g 25.95	
10-0170	Ammonium Persulfate*	10 g 3.95 30 g 4.25 100 g 4.75 1 lb 11.99	
10-0180	Ammonium Sulfate	10 g 3.95 100 g 4.95 1 lb 6.95	
Ammonium Sulfo cyanide, see Ammonium Thiocyanate (10-0200)			
10-0200	Ammonium Thiocyanate	10 g 3.95 100 g 6.95 1 lb 16.95	

10-0205	Ammonium Thiosulfate	1.5 lb 1 pint	4.95
10-0206	Ammonium Thiosulfate	3.0 lb 1 liter	6.95
10-0207	Ammonium Thiosulfate	10.0 lb 1 gallon	16.95
Anti-fog #1, see Benzotriazole			
10-0210	Anti-Calcium #4	130 g 100 ml	12.40
10-0210	Anti-Calcium #4	1.3 lb 1 pint	35.25
10-0211	Anti-Calcium #4	3.0 lb 1 liter	67.95
10-0240	Arrowroot Starch	10 g 3.95 100 g 5.95 1 lb 15.95	
10-0241	Ascorbic Acid	10 g 3.95 100 g 10.95 1 lb 39.95	
10-0245	p-Benzoquinone* §	10 g 5.95	
10-0250	Benzotriazole (Anti-fog #1)	10 g 4.95 100 g 16.95 1 lb 65.00	
10-0254	Benzyl Alcohol*	181 g 100 ml	12.95
10-0255	Biebrich Scarlet	5 g 9.95	
10-0260	Borax	10 g 3.95 100 g 4.95 1 lb 5.95	
	10-0261	5 lb	12.95
	10-0262	10 lb	25.00
	10-0263	20 lb	44.00
	10-0264	50 lb	99.00
10-0270	Boric Acid, Anhydrous	10 g 3.95 100 g 4.95 1 lb 7.95	
10-0305	Cadmium Bromide*	10 g 24.95	
10-0330	Carbon Black, Ultra fine	10 g 4.95 100 g 5.95 1 lb 8.95	
10-0340	Catechol (Pyrocatechin)*	10 g 5.95 100 g 15.95 1 lb 37.00	
10-0360	Chloramine-T	10 g 3.95 100 g 14.95 1 lb 44.95	
10-0390	Chrome Alum	10 g 3.95 100 g 10.95 1 lb 37.95	
10-0410	Citric Acid	10 g 3.95 100 g 4.95 1 lb 6.95	
	10-0411	5 lb	29.00
	10-0412	10 lb	52.00
	10-0413	20 lb	95.00
10-0430	Collodion*	1.0 lb 1 pint	94.95
10-0440	Collodion*	181 g 100 ml	23.95

10-0444	Color Developer 2 (CD-2)	10 g 5.33 100 g 27.17 1 lb 114.11	
10-0446	Color Developer 4 (CD-4) *	10 g 5.36 30 g 9.95 100 g 27.42 1 lb 115.26	
10-0460	Copper (II) Chloride (cupric)*	10 g 6.16 100 g 35.43	
10-0465	Copper nitrate*	10 g 6.95 100 g 22.00 1 lb 72.00	
10-0470	Copper Sulfate*	10 g 3.95 100 g 4.95 1 lb 10.95	
10-0475	Copper Sulfate (for Bromoil & Lith)*	10 g 4.95 100 g 8.95 1 lb 29.95	
10-0480	Dimezone	10 g 4.95 100 g 28.95 1 lb 89.00	
10-0482	Diethylene Glycol	1.0 lb 1 pint	10.30
10-0490	EDTA, Disodium Salt	10 g 4.95 100 g 15.56 1 lb 61.32	
10-0495	EDTA, Tetrasodium Salt	10 g 3.95 100 g 7.95 1 lb 21.00	
10-0500	Ferric Ammonium Citrate, Green	10 g 5.45 100 g 10.95 1 lb 41.95	
10-0502	Ferric Ammonium Oxalate	10 g 4.95 100 g 12.95 1 lb 49.95	
10-0505	Ferric Sodium EDTA	10 g 7.25 100 g 44.25 1 lb 177.75	
10-0510	Ferric Ammonium Sulfate	10 g 3.95 100 g 12.95 1 lb 48.95	
10-0520	Ferric Chloride*	10 g 4.95 100 g 12.95 1 lb 47.15	
10-0525	Ferric Nitrate*	10 g 4.95 100 g 9.95 1 lb 30.52	
10-0530	Ferric Oxalate, 20% Solution*	136g 100 ml	15.00
10-0531	Ferric Oxalate, 20% Solution*	5.75 lb 1 liter	75.00
10-0532	Ferric Oxalate, 20% Solution*	55g 30 ml	9.95
10-0535	Ferric Oxalate Dry Pack*	20g 6.8 g	7.50
10-0536	Ferric Oxalate Dry*	10g	8.00
10-0538	Ferric Oxalate Dry*	100 g	58.00

PHOTOGRAPHERS' FORMULARY INC.

(**=Requires hazard shipping charge)
 (*=May require hazard shipping charge)

Cat. No. Name of Chemical

	Quantity	Price
10-0540	Ferric Sulfate	
	10 g	3.95
	100 g	10.76
	1 lb	25.38
10-0560	Ferrous Sulfate	
	10 g	3.95
	100 g	5.95
	1 lb	8.95
10-0580	Gallic Acid	
	10 g	10.42
	100 g	81.71
10-0590	Gelatin, Hard (250 bloom)	
	10 g	3.95
	100 g	8.95
	1 lb	24.95
10-0602	Glutaraldehyde (24%)	
	176g	29.95
10-0604	Glycerin (Glycerol)	
	1.3 lb	21.31
10-0606	Glycerin (Glycerol)	
	146g	9.77
10-0610	Glycin (N-(parahydroxy-phenyl)glycine)	
	10 g	6.95
	100 g	18.95
	1 lb	79.00
10-0615	Glyoxal	
	1.3 lb	22.00
10-0616	Glyoxal	
	146g	8.95
10-0620	Gold Chloride, solid	
	1 gram	69.95
10-0621	Gold Chloride, solid	
	5 grams	298.95
10-0623	Gold Chloride, solid	
	10 grams	449.95
10-0630	Gold Chloride, 1% solution	
	10 ml	16.95
10-0632	Gold Chloride, 1% solution	
	50 ml	50.95
10-0634	Gold Chloride, 1% solution	
	100 ml	77.95
10-0642	Gum Arabic, Liquid (14 Baume)	
	596g	14.19
10-0643	Gum Arabic, Liquid (14 Baume)	
	10.5 lb	53.06
10-0644	Gum Arabic, Liquid (14 Baume)	
	5.5g	39.99
10-0660*	Hydrochloric Acid, 31% concentrate*	
	137g	9.95
10-0668	Hydroxylamine Sulfate*§	
	10 g	5.75
	30 g	10.95
	100 g	16.25
	1 lb	62.75
10-0669	Hydroxymethyltriazindolezine (TAI)	
	30 ml	6.95
	100 ml	12.95
10-0670	Hydroquinone*	
	10 g	3.95
	30 g	6.95
	100 g	7.95
	1 lb	15.95
10-0671	5 lb	64.10

§ = Restricted material. Must submit DEA Authorized Buyer form and photo ID to purchase. No restricted orders shipped without this Form, No Exceptions.

10-0685	Isopropyl Alcohol* (98%)		
	1.0 lb	1 pint	7.95
10-0686	Isopropyl Alcohol* (98%)		
	181 g	100 ml	5.95
	Kodalk, see Sodium Metaborate (Balanced Alkali) cat. no. 10-1285		
10-0690	Lavender Oil (NF)		
	55 g	30 ml	9.50
10-0695	Lavender Oil (NF)		
	135 g	120 ml	26.00
10-0700	Lead Acetate*		
	10 g	5.57	
	100 g	9.52	
	1 lb	33.44	
10-0720	Lead Oxalate		
	10 g	3.87	
	100 g	12.53	
	1 lb	47.09	
10-0750	Mercaptophenyltetrazole (PMT)		
	30 ml	6.95	
	100 ml	12.95	
10-0770	Metol (Elon)		
	10 g	5.95	
	100 g	12.95	
	1 lb	49.95	
10-0850	Oxalic Acid*		
	10 g	3.95	
	100 g	4.95	
	1 lb	8.95	
	Paraminophenol & Paraminophenol Hydrochloride, see p-Aminophenol, cat. nos. 10-0050 & 10-0060		
10-0860	Paraformaldehyde*		
	10 g	7.27	
	100 g	46.57	
10-0870	Phenidone*		
	10g	5.95	
	100g	21.00	
	1 lb	78.74	
10-0875	Phenosafarin	1g	35.95
10-0890	p-Phenylenediamine*		
	10 g	5.00	
	100 g	23.94	
	1 lb	98.99	
10-0892	Phosphoric Acid, 75%*		
	1.75 lb	1 pint	9.95
10-0894	Phosphoric Acid, 75%*		
	165 g	100 ml	7.95
10-0906	Pinacrytol Yellow Solution (1:2000)		
	115 g	100 ml	6.95
10-0910	Polyethylene Glycol		
	10 g	3.95	
	100 g	14.95	
	1 lb	55.95	
10-0920	Polysulfide (Liver of Sulfur) *		
	10 g	10.95	
	100 g	83.95	
	1 lb	149.95	
	Potassium Alum, see Alum, cat. no. 10-0030		
10-0925	Potassium Bicarbonate		
	10 g	3.95	
	100 g	4.95	
	1 lb	11.95	
10-0930	Potassium Bromide		
	10 g	3.95	
	100 g	5.95	
	1 lb	11.25	
10-0931	5 lb	49.00	
10-0932	10 lb	85.00	
10-0940	Potassium Carbonate, Anhydrous		
	10 g	3.95	
	100 g	4.95	
	1 lb	6.95	
10-0941	5 lb	19.95	
10-0942	10 lb	34.95	
10-0950	Potassium Chlorate*		
	10 g	6.95	
10-0970	Potassium Chloride		
	10 g	3.95	
	100 g	9.95	
	1 lb	24.95	
10-0980	Potassium Citrate		
	10 g	4.95	
	100 g	7.95	
	1 lb	28.95	
10-1000	Potassium Dichromate (Bichromate)* §		
	10 g	4.50	
	30 g	6.95	
	100 g	8.95	
	1 lb	15.95	
10-1010	Potassium Ferricyanide		
	10 g	4.95	
	30 g	5.45	
	100 g	7.95	
	1 lb	19.95	
10-1011	5 lb	51.95	
10-1030	Potassium Hydroxide*		
	10 g	4.95	
	30 g	5.95	
	100 g	6.95	
	1 lb	13.89	
10-1040	Potassium Iodide §		
	10 g	4.95	
	100 g	18.95	
	1 lb	69.95	
10-1050	Potassium Metabisulfite		
	10 g	3.95	
	100 g	4.95	
	1 lb	10.95	
10-1060	Potassium Oxalate		
	10 g	3.95	
	100 g	8.95	
	1 lb	39.95	
10-1070	Potassium Permanganate*§		
	10 g	4.95	
	30g	5.95	
10-1080	Potassium Persulfate*		
	10 g	3.95	
	100 g	7.95	
	1 lb	13.95	
10-1086	Potassium Sulfite 45% Sol		
	1 Gal	24.95	
10-1087	Potassium Sulfite 45% Sol	1 Liter	9.95
10-1088	Potassium Sulfite 45% Sol	1 Pint	5.95
10-1090	Potassium Thiocyanate		
	10 g	4.95	
	100 g	22.95	
	1 lb	89.95	
10-1100	Propylene Glycol		
	1.3 lb	1 pint	9.95
10-1105	Propylene Glycol		
	120 g	100 ml	6.95
10-1110	Pyrogallol (Pyrogallol Acid)*		
	10 g	6.95	
	30 g	11.95	
	100 g	18.95	
	1 lb	82.00	
		Pyrokatechin, Pyrocatechol, and Pyrocatechin, see Catechol, cat. no. 10-0340	
10-1120	Rochelle Salt		
	10 g	3.95	
	100 g	5.95	
	1 lb	16.47	
10-1125	Salicylic Acid		
	10 g	3.95	
	100 g	12.95	
	1 lb	47.95	
10-1140	Silver Nitrate*§		
	10 g	48.95	
	30 g	129.95	
	100 g	299.95	
	1 lb	995.00	
10-1150	Sodium Acetate		
	10 g	4.95	
	100 g	6.55	
	1 lb	16.95	
10-1160	Sodium Bicarbonate		
	10 g	3.95	
	100 g	4.95	
	1 lb	6.95	

PHOTOGRAPHERS' FORMULARY INC.

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 (*= May require shipping charge)

**Cat. No. Name of Chemical
 Quantity Price**

10-1170	Sodium Bisulfate (Sodium Hydrogen Sulfate)		
		10 g	3.95
		100 g	4.95
		1 lb	6.95
	10-1171	5 lb	24.25
	10-1172	10 lb	41.00
	10-1173	20 lb	75.00
	10-1174	50 lb	110.00
10-1175	Sodium Bisulfite		
		10 g	3.95
		100 g	4.95
		1 lb	7.50
	10-1176	5 lb	29.75
	10-1177	10 lb	45.00
	10-1178	20 lb	79.00
	10-1179	50 lb	149.00
	Sodium Borate, see Borax, (10-0260)		
10-1180	Sodium Bromide		
		10 g	3.95
		100 g	9.95
		1 lb	33.95
10-1189	Sodium Carbonate, Anhydrous		
		10 g	3.50
		100 g	3.95
		1 lb	4.95
	10-1188	5 lb	14.95
	10-1187	10 lb	21.00
	10-1186	20 lb	39.00
	10-1185	50 lb	59.00
10-1190	Sodium Carbonate, Monohydrate		
		10 g	3.50
		100 g	4.95
		1 lb	7.95
	10-1191	5 lb	29.50
	10-1192	10 lb	49.50
	10-1193	20 lb	69.50
	10-1195	55 lb	149.00
10-1200	Sodium Chloride		
		10 g	3.50
		100 g	4.50
		1 lb	5.00
10-1200S	Sodium Chloride (Lith Bleach)		
		10 g	3.95
		100 g	6.95
		1 lb	8.95
10-1220	Sodium Citrate		
		10 g	3.95
		100 g	4.95
		1 lb	8.95
	Sodium Hydrogen Sulfate, see Sodium Bisulfate, (10-1170)		
10-1270	Sodium Hydroxide*§		
		10 g	3.95
		30 g	4.95
		100 g	5.95
		1 lb	6.95
	10-1271	5 lb	26.75
10-1280	Sodium Metabisulfite		
		10 g	3.95
		100 g	4.95
		1 lb	7.50
	10-1281	5 lb	29.75
10-1285	Sodium Metaborate (Balanced Alkali) (Kodalk)		
		10 g	3.95
		100 g	4.95
		1 lb	7.95
	10-1286	5 lb	20.95
10-1295	Sodium Phosphate, Monobasic		
		10 g	3.95
		100 g	6.95
		1 lb	18.95
10-1300	Sodium Phosphate, Dibasic		
		10g	3.95
		100g	4.95
		1 lb	12.25

10-1310	Sodium Phosphate, Tribasic		
		10 g	3.95
		100 g	4.95
		1 lb	6.95
	Sodium Potassium Tartrate, see Rochelle Salt, (10-1120)		
10-1315	Sodium Salicylate		
		10 g	3.99
		100 g	9.95
		1 lb	29.95
10-1320	Sodium Sulfate		
		10 g	3.95
		100 g	4.95
		1 lb	7.50
10-1330	Sodium Sulfide*		
		10 g	3.95
		30 g	4.50
		100 g	5.95
		1 lb	8.95
	10-1331	5 lb	35.75
10-1340	Sodium Sulfite		
		10 g	3.95
		100 g	4.95
		1 lb	6.50
	10-1341	5 lb	16.95
	10-1342	10 lb	28.95
	10-1343	20 lb	52.95
	10-1344	50 lb	99.00
10-1345	Sodium Thiocyanate		
		10 g	3.99
		100 g	12.95
		1 lb	49.95
10-1360	Sodium Thiosulfate, (Hypo), Penta (prismatic rice)		
		10 g	3.95
		100 g	4.95
		1 lb	6.55
	10-1361	5 lb	16.95
	10-1362	10 lb	32.95
	10-1363	20 lb	61.95
	10-1364	50 lb	108.95
10-1370	Sodium Thiosulfate, Anhydrous		
		10 g	3.95
		100 g	4.50
		1 lb	7.85
	10-1371	5 lb	29.50
	10-1372	10 lb	55.50
	10-1373	20 lb	88.00
	10-1374	50 lb	149.00
10-1400	Stannous Chloride*		
		10 g	5.95
		100 g	29.95
10-1410	Succinic Acid		
		10 g	3.95
		100 g	9.95
		1 lb	29.95
10-1415	Sulfamic Acid*		
		10 g	3.95
		100 g	11.95
		1 lb	44.95
10-1445	Sulfuric Acid, 48%* §		
		182 g	9.95
10-1453	Tannic Acid		
		10 g	5.50
		100 g	28.95
10-1460	Tartaric Acid		
		10 g	5.95
		100 g	9.95
		1 lb	38.95
10-1461	Triethanolamine 85% Sol		
		2.5 lb	15.00
10-1462	Triethanolamine 85% Sol		
		142 g	8.95
10-1463	Triethanolamine 85% Sol		
		1.3 lb	10.95
10-1464	Triethanolamine 85% Sol		
		10.0 lb	49.95
10-1470	Thiourea (Thiocarbamide)*		
		10 g	3.95
		100 g	5.95
		1 lb	13.95
10-1475	Thymol		
		10 g	9.95
	Thymol limited to stock on hand		

10-1478	Tween 20 (Polysorbate 20) 30 ML 100% solution		
		79 g	6.95
		30 ml	
10-1479	Tween 20 (Polysorbate 20) 100 ML 10% solution		
		162 g	8.95
		100 ml	
10-1480	Urea		
		10 g	3.95
		100 g	4.95
		1 lb	6.95
	10-1481	5 lb	13.95

§ = Restricted material. Must submit DEA Authorized Buyer form and photo ID to purchase. No restricted orders shipped without this Form, No Exceptions.

DEA AUTHORIZED BUYER FORM

Customer No. : _____

Customer:** _____

Address: ** _____

If your address has changed please contact our office.

Please print or type each buyer's full name (first, initial, last) in the left hand column and have the buyer's sign and date in the right column.

**Print or Type Buyer's Name **	** <u>Signature and Date required !!</u> **

Please indicate which chemicals will be purchased:**

Please indicate if you buy List I chemicals for resale: Yes No

If Yes please provide your DEA Registration Number: _____

5. What is the intended use for the chemical purchased: (list mixing/recipe)** _____

(A process name will not work be very specific on line 5 please use your mixing formula and usage directions!!)

6. Please also send copy of a current photo ID Scanned via e-mail.**

An acceptable ID is a driver's license containing a picture and current address. The Photo ID's must be scanned and emailed to us at formulary@blackfoot.net a faxed id will cause delays in the order as they are not readable and we have to wait for the emailed or snail mailed one to arrive.

Without complete information we can't process your order, all items with the double ** must be filled out.

FAX OR EMAIL WITHOUT COVER SHEET TO:

Photographers' Formulary, Inc.
Order Office
Po Box 950
Condon, MT 59826
Fax (406) 754-2896
formulary@blackfoot.net

OR

All ** asterisked items are required and must be completed before your order will be processed.**

ADD ONE POUND FOR BOX AND PACKING MATERIAL.

There may be a \$50 HAZARD CHARGE for ground shipments. **We cannot ship hazardous materials C.O.D OR BY AIR.** Call to see if your order requires a Hazard shipping fee 800-922-5255. For Saturday delivery there is an additional charge of 15.00. **Add \$14.00 for UPS C.O.D. orders.**

ALASKA, HAWAII RATES ARE FOR MAJOR CITIES – ASK FOR QUOTE FOR RURAL ZIP CODES

Additional handling for buckets is \$9.00. Delivery confirmation or Signature required \$3.00.

Always call prior to sending a check or money order for accurate cost to prevent delays.

RATE ZONES BY ZIP CODE PREFIX

ZONE W 510-515, 560-588, 590-599, 669, 674, 676-693, 739, 800-838, 840-879, 883-884, 889-961, 970-979, 980-986, 988-994

ZONE E 004-005, 010-089, 100-339, 342-509, 516-559, 600-637, 638-668, 670-673, 675, 700-733, 734-738, 740-799, 880-882, 885

UPS GRND	0-2 lb	3-5 lb	6-10 lb	11-15 lb	16-20 lb	21-25 lb	26-30 lb	31-35 lb	36-40 lb	41-45 lb	46-50 lb	51-55 lb	56-60 lb	61-65 lb
ZONE W	9.95	11.95	12.95	13.95	15.95	17.95	19.95	21.95	23.95	26.95	27.95	29.95	31.95	32.95
ZONE E	10.95	12.95	14.95	18.95	23.95	27.95	32.95	36.95	39.95	42.95	45.95	48.95	51.95	52.95

UPS 2nd DAY AIR	0-2 lb	3-5 lb	6-7 lb	8-9 lb	10-11 lb	12-13 lb	14-15 lb	16-17 lb	18-19 lb	20-21 lb	22-23 lb	24-25 lb	26-27 lb	28-29 lb
ALASKA, HAWAII	41.95	47.95	52.95	57.95	64.95	69.95	76.95	81.95	89.95	96.95	104.95	112.95	119.95	127.95

Ups 2DAY	0-2 lb	3-5 lb	6-7 lb	8-9 lb	10-11 lb	12-13 lb	14-15 lb	16-17 lb	18-19 lb	20-21 lb	22-23 lb	24-25 lb	26-27 lb	28-29 lb
ZONE W	18.95	24.95	28.95	32.95	37.95	41.95	45.95	48.95	52.95	56.95	59.95	63.95	67.95	70.95
ZONE E	25.95	36.95	42.95	51.95	59.95	66.95	72.95	78.95	86.95	93.95	100.95	106.95	112.95	118.95

UPS 3-DAY	0-2 lb	3-5 lb	6-7 lb	8-9 lb	10-11 lb	12-13 lb	14-15 lb	16-17 lb	18-19 lb	20-21 lb	22-23 lb	24-25 lb	26-27 lb	28-29 lb	30-31 lb
ZONE W	14.95	17.95	20.95	22.95	25.95	27.95	30.95	32.95	34.95	36.95	38.95	41.95	43.95	45.95	48.95
ZONE E	19.95	26.95	31.95	36.95	41.95	45.95	51.95	54.95	57.95	61.95	66.95	70.95	74.95	79.95	83.95

US Priority Mail	2 lb	3 lb	4 lb	5 lb	6 lb	7 lb	8 lb	9 lb	10 lb	11 lb	12 lb	13 lb	14 lb	15 lb
Zone W	8.95	9.95	12.95	14.95	16.95	18.95	19.95	21.95	23.95	24.95	26.95	28.95	29.95	31.95
Zone E	10.95	13.95	16.95	19.95	21.95	24.95	27.95	30.95	33.95	36.95	39.95	40.95	42.95	43.95

Flat rate shipping boxes used when we are able to Size limits apply to these boxes	5.95 Sm 11.95 Md 15.95 Lg	Flat rate shipping envelope used when we are able to	5.95
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Canadian Air Parcel	3 lb	4 lb	5 lb	6 lb	7 lb	8 lb	9 lb	10 lb	11 lb	12 lb	13 lb	14 lb	15 lb	16 lb
All Points	28.95	30.95	33.95	36.95	38.95	41.95	43.95	46.95	48.95	51.95	53.95	56.95	58.95	61.95

Flat rate shipping box (specific box) Med used when we are able to 20 LB maximum weight	32.95 39.95	Flat rate shipping envelope used when we are able to	Canada & Mexico Other Countries	12.95 16.95
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