

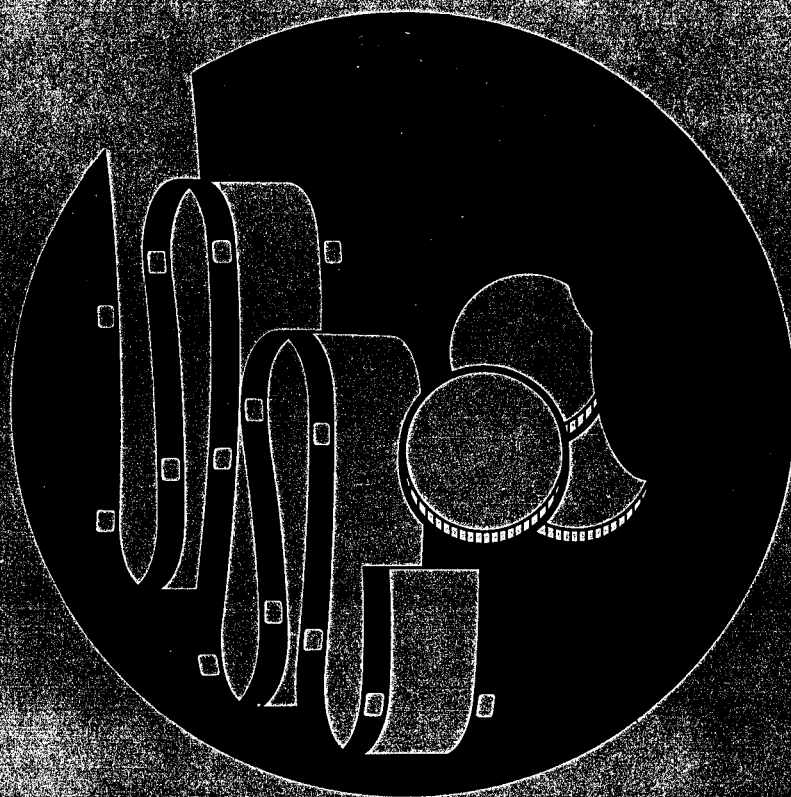
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Replaces 4-80 Edition



The KODAK SILVER RECOVERY PROGRAM



INTRODUCTION

For the past few years, there has been a significant fluctuation in the price of silver and a growing concern about recovering it from photographic products. As a result, Kodak receives many inquiries about the silver recovery program offered to our customers. This pamphlet contains information about Kodak products used for silver recovery and the conditions under which Kodak's refining service is offered.

Kodak makes its products and services available to the end users through dealers in x-ray supplies, graphic arts and printing supplies, professional photographic product supplies, and service companies handling precious metals. A reference to the classified section of local telephone or business directories may be helpful in locating a dealer in Kodak silver recovery products in your area.

Of course, many commercial refiners will process material from KODAK Chemical Recovery Cartridges, as well as silver-bearing material from other sources.

KODAK Chemical Recovery Cartridges

In an effort to assist users of photographic materials in reclaiming silver from various processing solutions, Kodak provides a silver recovery device called a Chemical Recovery Cartridge (CRC). There are presently four types of CRCs: Type 1-P and Type 2-P are 5-gallon factory-sealed plastic buckets. Type 3 is a 15-gallon stainless steel drum that can be recharged by the user. The Junior 1-P is a 3 1/2-gallon unit similar to but with half the capacity of the Type 1-P.

In addition to the appropriate adapter kit (see accessory list on page 4), a fundamental accessory is the KODAK Circulating Unit, Type P. This device is installed between the processor or holding tank and the drain, and facilitates connection and removal of the CRC. Additional product information is included in KODAK Publication No. J-9, *Silver Recovery with the KODAK Chemical Recovery Cartridge, Type P*. For more information, see the following KODAK Publications:

- J-10B Directory of Silver Services
- J-10 Recovering Silver from Photographic Materials
- J-10A Potential Silver Yield from KODAK Photographic Paper
- J-9 Silver Recovery with the KODAK Chemical Recovery Cartridge, Type P
- J-9A Silver Recovery with the KODAK Chemical Recovery Cartridge, Type 3

Silver Recovery and Refining Services

1. General Terms and Conditions

Kodak offers a refining service limited to its own silver recovery products and silver flake obtained from the photographic process. Kodak views this as an accommodation service for its own customers and not as a general refining service to industry at large. This Kodak service is available only through the same types of businesses mentioned in the introductory paragraphs.

Kodak retains the right to specify the types of silver-bearing material that it will accept for processing. Kodak also retains the right to refuse and return material at the originating shipper's expense if the material contains impurities or foreign matter not normally encountered in the material described in Number 3 below.

The return shipment will not be insured since the value of any silver is unknown. Title of the shipment will pass to the customer at the point of shipment so the customer will be responsible for filing any loss or damage claims with the carrier. Kodak will not be liable for any loss incurred by the customer for such returns. Kodak will endeavor to properly package return shipments to minimize any customer losses.

Kodak retains the right to refuse and return any material subject to the constraints of its refining capacity.

All silver recovered from a customer's material becomes the property of Kodak, and none will be returned as bullion or retained on behalf of the customer.

The assay evaluation made by Kodak will be final and will govern credit calculation.

2. Those eligible

Kodak will accept silver-bearing material from:

- a. Reselling dealers of Kodak products
- b. Photographic laboratories which are listed Kodak accounts doing business with the trade
- c. KODAK Equipment Performance Program customers
- d. KODAK Business Systems Markets Division customers

3. Material that Kodak will accept for refining

KODAK Chemical Recovery Cartridges, Type 1-P, Type 2-P (5-gallon size), and Junior 1-P (3 1/2-gallon size).

KODAK Chemical Recovery Cartridge, Type 3 (15-gallon size). If the Type 3 cartridge is used as a shipping container for accumulated sludge, the sludge must be from photographic processing solutions that have been desilvered with steel wool.

Electrolytic flake silver obtained from photographic processing solutions. Due to the large-scale refining equipment used in the Kodak Park Recovery Department, the minimum acceptable shipment of electrolytic flake silver is 1,000 troy ounces (approximately 68 1/2 pounds). The maximum acceptable shipment of electrolytic flake silver in any single calendar month without prior approval is 17,500 troy ounces (approximately 1200 pounds). This approval may be requested by contacting the Silver Recovery Coordinator at Kodak Office in Rochester, New York:

NOTE: The Recovery Department does not accept chemical recovery cartridges made by other manufacturers, scrap photosensitized material, silver scrap from nonphotographic sources, bar silver, or steel wool powders.

4. Shipping information

KODAK Chemical Recovery Cartridges in cartons when properly sealed are acceptable shipping containers. The KODAK Chemical Recovery Cartridge Return Summary (form KO3322) and the KODAK Chemical Recovery Cartridge Return Label (form KO3321) must accompany all shipments of CRCs to Kodak.

Electrolytic flake silver (chip) should be crated or secured in a suitable metal container. If requested, padlocks and/or shipping containers will be returned at the customer's expense. The Electrolytic Metal Flake Return Summary (form KO3347) must accompany all shipments of flake silver to Kodak.

These forms are available from Customer Service Representatives in the various regions.

All shipments of silver material must be made **prepaid** to Kodak Park's Receiving Department, 1041 Ridge Road West, Rochester, New York 14650. Transportation and insurance charges are the responsibility of the customer.

For security reasons, personal deliveries of chemical recovery cartridges or flake silver to Kodak Park's Receiving Department must arrive before 3:30 p.m. on workdays. Receiving Department personnel will sign only for the gross weight received and cannot acknowledge contents of the delivered units. Deliveries will *not* be accepted on nights, holidays, or weekends.

5. Charges for Kodak's silver recovery service

- Handling — The special security measures necessary to maintain the separate identity and integrity of customer's material.
- Sampling — the blending and prerefining operations necessary to provide uniformity of the samples taken for assay purposes.
- Assay — the laboratory procedures followed to determine the silver content of the material. The silver content of the material is determined by the Volhard Titration laboratory method.
- Refining — the process of purifying the silver-bearing material by smelting and electrolysis.
- Silver Accountability — this represents the amount of silver for which the company will issue credit expressed as a percent of the total amount of silver assayed.

6. Charges in effect as of July 26, 1982

Silver-bearing sludge from CRCs:

	Net
Handling, Sampling, and Refining (per refined troy ounce)	\$ 0.80
Assay Charge Per Assay Unit (assay unit is any combination of KODAK CRC's whose container volumes total 30 gallons or less from the same customer) The Junior 1-P CRC is an exception and the assay unit is limited to a maximum of six (6) containers.	\$ 27.00
Silver Accountability	95%

Electrolytic Metal Flake Silver:

Handling, Sampling, and Assay per 8,750 troy ounces (approximately 600 pounds) or less from the same customer. Minimum acceptable shipment is 1,000 troy ounces (approximately 68 1/2 pounds). Maximum of 17,500 troy ounces (approximately 1200 pounds) in any single calendar month, without prior approval.*	\$287.00
Refining Charge (per refined troy ounce)	\$ 0.14
Silver Accountability	97%

Terms and charges are subject to change without notice.

*This approval may be requested by contacting the Silver Recovery Coordinator, Eastman Kodak Company, Rochester, New York 14650.

7. Payment for silver recovered

The price Kodak pays for silver is the average of 20 consecutive daily price quotes by Handy and Harman in New York, commencing with the day of receipt at Kodak Park.

Credits are entered on customers' accounts from five to seven weeks after receipt of material. Customers should *not* deduct their anticipated credit against monthly payments due Kodak. These credits are reviewed in accordance with sound credit administration practices and may be used to offset past-due balances. Furthermore, these credits are not normally carried in an account past the due date in order to offset possible future purchases. Net credit balances in a customer's account are cleared through the issuance of a check.

If customers wish to be paid by check for their silver in lieu of credit to their account, they should indicate this on the Return Summary form at the time the shipment is made to Kodak. The words "CHECK REQUESTED" should be written boldly on the form in the area under the cartridge identification numbers. Customers will receive a Credit Memorandum by mail describing the amount of payment for their silver less the appropriate charges (see 5 and 6 above). A check, covering the net silver recovery credit, will follow the Credit Memorandum in approximately ten days.

Credits will not be issued in the form of silver bullion.

Overstock, Leaking, or Malfunctioning KODAK Chemical Recovery Cartridges

The following procedures are established to report overstock, leaking or malfunctioning Chemical Recovery Cartridges:

1. Overstock Return — Unused Chemical Recovery Cartridges and KODAK Chemical Recovery Cartridges, Type 3, Refills

The Kodak field representative completes a Product Return Adjustment Form and requests that credit be issued by the servicing Kodak Regional Distribution Center. The product and form should be shipped to the appropriate Kodak Regional Distribution Center.

2. Malfunctioning Cartridge — No Silver Recovered

The Kodak field representative completes a field report and requests that credit be issued or the cartridge be replaced by Rochester. If the silver yield is not likely to be economical to cover process and shipping costs, the cartridge should be disposed of locally. The field representative completes a disposal certificate.

3. Malfunctioning Cartridge — Reasonable Silver Yield Expected

The Kodak field representative completes a field report and requests that credit be issued or the cartridge be replaced by Rochester. Based on the Kodak field representative's judgment as to the expectation of reasonable silver yield, the cartridge may be returned to Kodak Park Recovery Department by using the KODAK Chemical Recovery Cartridge Return Summary and Return Label in the usual way. The Return Summary should be marked "Malfunctioning Cartridge — Do Not Charge for Assay" by the field representative. Adequate packaging is mandatory. The Recovery Department will assay the cartridge at no cost to the customer. The customer will be charged the usual refining costs, and credit will be issued for the amount of silver recovered less such costs.

4. Return of Empty Type 3 Cartridge for Container Credit

The empty Type 3 should be shipped to Kodak Park Recovery Department by using the Return Summary and Return Label in the same manner as a cartridge returned for silver recovery. Container credit will be issued by Rochester.

Inquiries

If you need more information, please contact the Silver Recovery Coordinator, Eastman Kodak Company, Rochester, New York 14650.

Silver Recovery Products

(available from dealers through Regional Distribution Centers)

	CAT No.	List Price
KODAK Circulating Unit, Type P	194 4487	\$ 28.75
KODAK Chemical Recovery Cartridge, Type 1-P, 5-gal size (for bleach-fix and black-and-white fixer)	194 3018	45.50
KODAK Chemical Recovery Cartridge, Junior 1-P, 3 1/2-gal size (for bleach-fix and black-and-white fixer)	139 8205	35.75
KODAK Chemical Recovery Cartridge, Type 2-P, 5-gal size (for color negative and reversal film fixer)	194 3901	45.50
KODAK Chemical Recovery Cartridge, Type 3, 15-gal size (for bleach-fix and black-and-white fixer)	199 5984	277.00*
KODAK Cartridge Refill, Type 3 (1 steel wool refill and cover gasket)	123 8658	58.75
KODAK Circulating Unit Adapters, Type 3, per set (for Type 3 unit only)	191 3425	17.40
KODAK Silver Estimating Test Papers, per book (each book contains in excess of 200 test papers)	196 5466	12.35
(Minimum- and multiple-order quantity, carton of 10 books)		
KODAK 3/4-inch Hose Adapter Elbow (for treatment of wash water) pkg of 2	183 2815	2.95

*The stainless steel container may be new or reconditioned. A \$75 credit will be issued for each container returned to Kodak in a condition suitable for remanufacture.

Silver Recovery Accessories

(available from dealers through Parts Services, 800 Lee Road, Rochester, New York 14650)

	Part No.	List Price
Kit for adapting such processors as KODALITH Film Processor, Model 324 series, and KODAK VERSAMAT Processor Model 17, for silver recovery	K-2675	3.50
Kit for adapting such processors as KODAK VERSAMAT Film Processor, Models 11, 11A, 11C, 411, and 317, for silver recovery	K-2685	23.00
Kit for adapting such processors as KODAK X-OMAT Processor, Model M5, and KODAK RP X-OMAT Processor, Models M6, M6A, and M6A-N, for silver recovery	K-3275	11.50
Kit for adapting such processors as KODAK RP X-OMAT Processor, Model M7	K-5325	10.00
Kit for adapting such processors as KODAK VERSAMAT Film Processor, Models 5, 5A-N, and 75	508430	50.00
Kit for adapting such processors as the KODAK ROYALPRINT Processor, Model 417, for silver recovery	583129	90.00
Kit for adapting a flexible container package for silver recovery	K-3715	14.50
Kit for adapting a chemical storage tank for silver recovery	K-2695	61.00
Restricting Orifice (for restricting flow rate through 3/4-inch tubing to 300 mL per minute) ...	463114	4.50
Sight Glass (for observing flow in bleach-fix regeneration unit tubing. Can be removed for cleaning.)	527065	2.00
Plastic Tubing, 3/4-inch ID with 1/8-inch wall thickness	760477	1.50/ft
Tubing Clamp (Corbin type) (suitable for 3/4-inch ID plastic tubing with 1/8-inch wall thickness)	452638	0.35
Locking Ring (to secure cover on Type 3 Cartridge)	764777	9.00
Plastic "Tee" Assembly (for Circulating Unit)	764774	3.00
Pail Support (for first CRC of two in series)	542067	23.00
Plastic Shipping Cap	764773	0.75
Washer for Cap of Circulating Unit	764616	0.15

Prices shown are suggested prices only and are subject to change without notice.

Actual selling prices are determined by the dealer.