



Silver Refining at Kodak

SILVER REFINING

Q. Does Kodak accept silver-bearing materials from customers for refining, recovery, and recycling?

A. Yes, depending on the type and quantity of material, Kodak (at its Rochester, New York manufacturing facility) will accept many silver-bearing materials for refining, recovery, and recycling.

Q. What silver-bearing materials will Kodak accept?

A. Silver flake from electrolytic recovery units and silver-rich sludges (such as TMT precipitate) are some of the types of materials Kodak either accepts directly or refines through third parties. In addition, we may also accept processed and unprocessed films depending on the type and manufacturer.

SILVER FLAKE

Q. Will Kodak accept the silver flake from my electrolytic silver-recovery unit?

A. Yes, we will accept silver flake for refining and recovery. For current pricing and accountability, please contact Kodak Environmental Services at 716-477-3194 or by email at KES@kodak.com.

Q. Can I ship any amount of silver flake?

A. You must ship a *minimum* of 2,000 - 3,000 lbs. of silver flake per shipment.

Q. I do not have sufficient quantities to cover the minimum amount for reimbursement; what should I do?

A. You may be able to store the silver flake until you have accumulated enough to meet the requirements. (Facilities in California may have restricted storage times due to state regulations.) You can also check your telephone directory for precious metal refiners/buyers in your area, or contact Kodak Environmental Services at (716) 477-3194 or by email at KES@kodak.com to request a list of buyers and refiners for your silver. You can also locate the list of silver refiners and buyers on our Kodak Environmental Services website at www.kodak.com/go/kes.

Q. I cannot remove the silver flake from my cathode. Will Kodak accept this material anyway?

A. Silver flake must be removed from re-useable cathodes. In cases of single-use cathodes, contact Kodak Environmental Services for a list of silver refiners and buyers or locate the list on our Kodak Environmental Services website located at www.kodak.com/go/kes.

Q. Are there any shipping requirements or restrictions for the silver flake?

A. You should ship silver flake in a 5-gallon (or larger) polyethylene pail. If you have other container types, please contact Kodak Environmental Services at 716-477-3194 or by email at KES@kodak.com to verify that your container type is appropriate. Silver-bearing materials (such as silver flake) that are not classified as a hazardous waste do not require manifesting during transportation to a refiner, nor is a hazardous waste transporter required. Please check with your state for any additional transportation requirements. Because of the shipment's monetary value, you may want to consider insuring the shipment.

Q. Is the silver processed at Kodak, and what happens to the silver flake after refinement and recovery?

A. The silver is processed at Kodak's facility and used in the manufacturing of new Kodak photographic products.

MRCs (Metallic Replacement Cartridges) AND CRCs (Chemical Recovery Cartridges)

Q. I use a metallic recovery cartridge (MRC/CRC). Will Kodak accept my cartridges for refining?

- A. No, Kodak does not accept cartridges for refining. Please contact Kodak Environmental Services at (716) 477-3194 or by email at KES@kodak.com for information on silver refiners and buyers. The list is also available on our Kodak Environmental Services website at www.kodak.com/go/kes.

OTHER SILVER-RICH MATERIALS

Q. Will Kodak accept ion-exchange resins for refining?

- A. No, Kodak does not accept ion-exchange resins for refining, but we will provide information on refiners who provide that service. Please contact Kodak Environmental Services at (716) 477-3194 or by email at KES@kodak.com for more information.

Q. What about chemical precipitating agents or other silver-rich sludges for refining?

- A. With the exception of TMT from the KODAK SR-2000 Silver Recovery Unit, precipitates and other silver-rich sludges will be handled by Kodak on a case-by-case basis. You will need to provide a representative sample of the material, and upon analysis and acceptance by Kodak, you will be given a price quote. Please contact Kodak Environmental Services at (716) 477-3194 or by email at KES@kodak.com for more information.

FILM REFINING

Q. Does Kodak accept scrap photographic film from customers for refining and recycling?

- A. Yes. We accept both processed and unprocessed films for refining and recycling, depending on the type of film base, with only a few exceptions.

Q. What types of scrap film will Kodak accept for recycling and/or refining?

- A. Kodak accepts most polyester films for silver refining and film-base recovery at our facility, including DryView films. Films must be clean (please refer to the attached Specifications), dry, and segregated from other film types. We will also accept other film types, such as unprocessed Kodak acetate films, for silver recovery if shipped separately.

Q. How can I tell the difference between acetate and polyester film base?

- A. Acetate film can be easily torn; polyester film cannot. In addition, most graphic arts, aerial, and medical/x-ray films are polyester base. Most consumer and professional films are acetate base.

Q. Do any of the films require special handling or manifesting?

- A. Most films are not classified as a hazardous waste and do not require manifesting during transportation to a refiner, nor is a hazardous waste transporter required. There are a few types of films that may require manifesting or special handling (such as certain electron microscopy films, some industrial x-ray films, and some aerial photographic films). Please check with your state for any additional transportation requirements.

Q. Does my polyester film have to be Kodak film base in order to be accepted?

- A. No, we accept any manufacturer's polyester film base for recycling.

Q. How much film should I ship?

- A. You must ship a *minimum* of 35,000 - 40,000 lbs. of clean film base per shipment. For more information, please refer to the attached specifications sheet.

Q. Is there an easy way to determine how much film constitutes 35,000 - 40,000 lbs.?

- A. A general guideline is that about one "truck load" or forty "gaylords" will weigh approximately 35,000 - 40,000 lbs. A gaylord is a 4 x 4 x 5 ft cardboard box.

Q. I do not have 35,000 - 40,000 lb. quantities; what should I do?

- A. If you cannot store your film to accumulate the minimum quantity, please contact Kodak Environmental Services at (716) 477-3194 or by email at KES@kodak.com. They can provide a list of scrap film buyers who accept smaller quantities. The list of scrap film buyers is also located on the Kodak Environmental Services website at www.kodak.com/go/kes.

Q. Will I be reimbursed for the silver in my film, or for the polyester film-base recovery?

- A. Depending on the quantities, type and condition of your film, you will be reimbursed fair value for the silver and polyester, minus processing fees.

Q. What containers should I use to ship the film?

- A. Kodak accepts shipments of film in gaylords. A gaylord is a 4 x 4 x 5 foot cardboard box.

Q. Do I need to make any special arrangements with Kodak to ship any of my films?

- A. Once you have verified your film type (polyester or acetate), and anticipate meeting the minimum requirements, we recommend that you contact Kodak Environmental Services at 716-477-3194 or by email at KES@kodak.com. They will facilitate your receiving a proposal.

SPECIFICATION SHEET

POLYESTER FILM RECYCLING AT KODAK

The following information is intended for customers who want to recycle their polyester-based film. Film not meeting these requirements may be returned, processed or disposed of by Kodak, at the customer's expense. If you cannot meet these specifications and still want to recycle your Kodak polyester films, please call Kodak Environmental Services at (716) 477-3194 for information on other recycling sources.

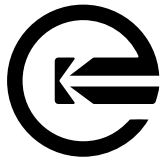
1. Customers must have at least 35,000 – 40,000 pounds of film (a truck load) or Kodak will not accept the shipment. 35,000 - 40,000 lbs. is approximately forty "gaylords." (A gaylord is a large cardboard box, approximately 4 x 4 x 5 feet.)
2. Ship the gaylords on standard 40 x 48-inch wooden pallets.
3. Separate the polyester film from all other types of film-base and plastic. Separate traditional polyester film from DryView film (although they may be included in the same shipment). Ship acetate or thermal films separately and do not include them in the shipments of polyester base.

Examples of polyester films include:

- X-ray film
- DryView film
- Silver-halide graphic arts film
- Long roll professional imaging products
- Kodak aerial films
- Kodak transparencies (from copiers)

Please call Kodak Environmental Services at (716) 477-3194 or email us at KES@kodak.com if you need help in determining your film type.

4. To prepare film to ship:
 - Make sure film is clean and dry
 - Remove the film from all reels, cores, spools, and sleeves
 - *Do not* include these reels, cores, spools, sleeves, or other non-polyester film contamination in the shipment of film
 - Do not include spliced film or film with tape or staples attached
 - Make sure DryView and traditional polyester films are separated



Kodak Environmental Services

For more information about Kodak Environmental Services (KES), visit KES on-line at:
www.kodak.com/go/kes

For more information about Kodak Health Imaging, including product information visit Kodak on-line at:
www.kodak.com/go/health

For additional information about Kodak, visit Kodak at:
www.kodak.com

The Kodak Information Center Faxback System
—Available 24 hours a day, 7 days a week—

Many technical support publications for Kodak products can be sent to your **fax** machine from the Kodak Information Center.

Call: U.S. 1-800-242-2424, Ext. 33
Canada 1-800-295-5531

If you have ordering or technical questions about Kodak products, call:

In the U.S.A.:
1-800-242-2424
Monday–Friday, 9 a.m.–7 p.m. (Eastern time)

OR

Kodak Health Imaging Medical Products Customer Support Line:
1-800-336-4722

In Canada:
1-800-465-6325, Monday–Friday
8 a.m.–5 p.m. (Eastern time)

Or contact Kodak on-line at:
www.kodak.com/go/support

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