

BID LIST NO. 0382

SPECIFICATION FOR PHOTOGRAPHIC FILM FOR MISCELLANEOUS PURPOSES

PROPERTY NUMBERS: 240494 257982 240508 258831

NOTE: SEE ALSO GPO PROPERTY #240516

General Requirements

These films are to be used in GPO's Negative Section to produce high quality negatives for both line work and halftones. The films must be used in conjunction with photographic developer made by the same manufacturer as a "system". This will insure high quality results and ease of trouble-shooting, by utilizing the appropriate developer with the film. The system of matched films and developer must be capable of producing high speed, high contrast line and halftone negatives in a process camera.

Procurement awards for these films must be made in conjunction with the award for developer (Property #240516) in order that the correct amount of developer (according to manufacturer's recommended replenishment rate) is on hand to process the total number of rolls of film that are ordered. For award purposes, the total price of all rolls of film and developer necessary for processing the film should be utilized. The film shall have a shelf life of one year after receipt.

Specific Requirements

<u>Property Number</u>	<u>Width of Roll</u>	<u>Clear or Matte Finish</u>
240494	508 mm (20")	clear
257982	610 mm (24")	clear
240508	305 mm (12")	clear
258831	457 mm (18")	matte

Film length 61.0 m (200')

Winding emulsion side out, film taped to core

Inside diameter core 71.9 mm (2.832")

Developing time 45 seconds max

Developing temperature 24-38°C (75-100°F)

DMax 3.50 min

Base density 0.10 max

Contrast For line work, utilizing a Stouffer 14-step scale, a solid step 3, gray step 4, and clear step 5 should be achievable.

Fine lines Lines on copy 0.076-0.102 mm (0.003-0.004"), reproducible without any breaks.

Halftones When using a positive magenta 133-line screen, film must be able to hold a 10% highlight dot and a 90% shadow dot. The dots must be clean, crisp, and sharp throughout the entire range without evidence of a "halo", fuzziness or veiling.

Stability Developer must be stable over a period of 5 days minimum with no changes in negative quality.

Testing and Sample Requirement

The manufacturer is required to supply three (3) rolls of film with the appropriate amount of developer (according to the manufacturer's recommended replenishment rate) for preliminary testing. If initial results are satisfactory; GPO will purchase further film and developer for more extensive testing prior to placing product on qualified product list. Films and developer are required to meet specifications when using the following equipment:

Process Cameras

Dainippon Screen C-475-D

Klimsch Autovertikal T-RP

Langston Monotype Overhead Camera (GPO #8194)

Chemco Marathon Model 1211

Processors

LogEtronic LogE (GPO #3616, 3618, 3620)

LogEtronic Model LD2600A

Kodak Kodamatic 710

Qualified Product List

The following products have been tested and comply with the current specification:

Kodak Ultratec

Konica 6640 tetrastige "EO"

Kodak S0268

Anitec Reprodot RH4

Anitec Newsdot

Polychrome Millenium 3000 - PXL4

AGFA QOC-4

Konica HRC-100E Tetrasige Camera Film

Date of Last Revision: December 4, 1992

SPECIFICATION FOR PHOTOGRAPHIC DEVELOPER & REPLENISHER

PROPERTY #240516

NOTE: SEE ALSO GPO PROPERTY NUMBERS 257982, 240508 AND 258831

GENERAL REQUIREMENTS

Developer is to be used in GPO's Negative Section to produce high quality negatives for both line work and halftones. The developer must be used in conjunction with photographic film made by the same manufacturer as a "system". This will insure high quality results and ease of trouble-shooting, by utilizing the appropriate developer with the film. The system of matched films and developer must be capable of producing high speed, high contrast line and halftone negatives in a process camera.

Procurement awards for this developer must be made in conjunction with the award for films (Property Numbers 240292, 257982, TBA and 258831) in order that the correct amount of developer (according to manufacturer's recommended replenishment rate) is on hand to process the total number of rolls of film that are ordered. For award purposes, the total price of all rolls of film and developer necessary for processing the film should be utilized.

SPECIFIC REQUIREMENTS

DEVELOPING TIME 45 seconds max

DEVELOPING TEMPERATURE 24-38°C (75-100°F)

DMAX 3.50 min

BASE DENSITY 0.10 max

CONTRAST For line work, utilizing a Stouffer 14-step scale, a solid step 3, gray step 4, and clear step 5 should be achievable.

FINE LINES Lines on copy 0.076-0.102 mm (0.003-0.004"), reproducible without any breaks.

HALFTONES When using a positive magenta 133 line screen, film must be able to hold a 10% highlight dot and a 90% shadow dot. The dots must be clean, crisp, and sharp throughout the entire range without evidence of a "halo", fuzziness or veiling.

STABILITY Developer must be stable over a period of 5 days minimum with no changes in negative quality.

MSDS for developer/replenisher must be provided

TESTING AND SAMPLE REQUIREMENT

The manufacturer is required to supply three (3) rolls of film with the appropriate amount of developer (according to the manufacturer's recommended replenishment rate) for preliminary testing. If initial results are satisfactory, GPO will purchase further film and developer for more extensive testing prior to placing product on qualified product list. Films and developer are required to meet specifications when using the following equipment:

Process Cameras

Dainippon Screen C-475-D
Klimsch Autovertikal T-RP
Langston Monotype Overhead Camera (GPO #8194)
Chemco Marathon Model 1211

Processors

LogEtronic LogE (GPO #3616, 3618, 3620)
LogEtronic Model LD2600A
Kodak Kodamatic 710

QUALIFIED PRODUCT LIST

THE FOLLOWING PRODUCTS HAVE BEEN TESTED AND COMPLY WITH THE CURRENT SPECIFICATION:

AFGA QUANTA ONE
Konica 860 tetrastige

SUPPLIERS: G E RICHARDS

PITTMAN AND COMPANY

PROCUREMENT WORKSHEET

The attached worksheet is to be used for procurement of this item with photographic film (GPO Property 257982, 240508 and 258831).

NOTE: Award will be made in aggregate to the lowest, responsive bidder.

Calculation of total square inches of film ordered:

<u>PROPERTY #</u> <u>Rolls Ordered</u>	<u>Number of</u> <u>Per Roll</u>	<u>Square Inches</u> <u>of Film</u>	<u>Square Inches</u>
240494		x 48,000	=
257982		x 57,600	=
240508		x 28,800	=
258831		x 43,200	=

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TOTAL SQUARE INCHES OF FILM ORDERED = (A) _____

Contractor will state the required information below in order to determine the amount of developer/replenisher that will be supplied in order to process ALL of the film ordered above.

Information should be supplied by the contractor based on line exposure (75% exposed film) and a developer tank capacity of 27 liters (7.1 gallons). ALL INFORMATION REGARDING REPLENISHMENT RATE AND DILUTION MUST BE SUPPLIED ON A SPECIFICATION SHEET FOR THE DEVELOPER/REPLENISHER WITH THE BID.

DEVELOPER/REPLENISHER DILUTION:

(B) _____ parts developer/replenisher concentrate to

(C) _____ parts water

(This dilution constitutes the "working solution")

REPLENISHMENT RATE:

(D) _____ milliliters of "working solution" per square inch of film processed.

SIZE OF CONCENTRATE DRUM:

(E) _____ gallons of developer/replenisher concentrate per drum

Calculation of TOTAL NUMBER OF DRUMS REQUIRED to process all rolls of film ordered (round UP answer to nearest whole number):

$$\text{TOTAL NUMBER OF DRUMS REQUIRED TO PROCESS ALL ROLLS OF FILM ORDERED} = \frac{(A) \times (D) \times (B + C) \times 0.0002641794}{(E)}$$

TOTAL NUMBER OF DRUMS REQUIRED TO PROCESS ALL ROLLS OF FILM ORDERED _____

Where:

A = total square inches of film ordered

B = parts of developer/replenisher concentrate for dilution

C = parts of water for dilution

D = replenishment rate in milliliters per square inch of film

E = gallons of developer/replenisher concentrate per drum
0.0002641794 = factor for gallons per milliliter