

MIL-K-17073(Aer)

16 March 1952

Superseding PH-128

2 December 1944

MILITARY SPECIFICATION
 KIT; PACKAGED CHEMICALS, PHOTOGRAPHIC,
 NAVY RE-EXPOSURE REVERSAL PROCESS FOR
 16MM UNIVERSAL FILM IN HOUSTON K-3A
 MACHINES

(This specification has been approved by the
 Bureau of Aeronautics, Department of the Navy)

1 SCOPE AND CLASSIFICATION

1.1 SCOPE.- This specification covers the requirements for one type kit of packaged chemicals for reversal processing of 16mm black and white film in Houston K-3A machines.

2 APPLICABLE SPECIFICATIONS AND OTHER PUBLICATIONS

2.1 SPECIFICATIONS.- The following Government Specifications, of the issue in effect on date of invitation for bids, form a part of this specification.

Federal Specifications

0-A-421	Aluminum Potassium Sulfate, Photographic
0-H-886	Hydroquinone (1, 4-Dihydroxybenzene), Photographic
0-M-571	Monomethyl Paraminophenol Sulfate (Elon)
0-N-376	6-Nitrobenzimidazole Nitrate, Photographic
0-P-16	Packaging of Photographic Dry Chemicals, General Specification for
0-P-551	Potassium Bromide, (for) Photography
0-P-556	Potassium Dichromate, Photographic
0-S-579	Sodium Bisulfite, Photographic
0-S-581	Sodium Carbonate, Monohydrate, Photographic

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0-S-603	Sodium Hydroxide, Photographic
0-S-606	Sodium Sulfite, Anhydrous, (for). Photography
0-S-609	Sodium Sulfate, Photographic (Anhydrous)
0-S-616	Sodium Thiosulfate, Anhydrous, Photographic Grade

Navy Department SpecificationGeneral Specifications for Inspection
of Material

2.2 OTHER PUBLICATIONS.- The following other publications, of the issue in effect on date of invitation for bids, form a part of this specification.

Military Standard

MIL-STD-129 Marking of Shipments

American Standards

Z38.8.106	28% Acetic Acid
Z38.8.153	Paraformaldehyde
Z38.8.105	Sodium Acid Sulfate
Z38.8.231	Sodium Metaborate
Z38.8.101	Sulfuric Acid (Concentrated)

2.3 AVAILABILITY OF SPECIFICATIONS AND OTHER PUBLICATIONS.-

2.3.1 General.- When requesting specifications and other publications, refer to both title and number.

2.3.2 Government Specifications.- Copies of this specification and applicable Government Specifications may be obtained upon application to the Commanding Officer, U.S. Naval Air Station, Johnsville, Pennsylvania, Attention: Technical Records Division.

2.3.3 ASA Standards.- Copies of American Standards may be obtained from the American Standards Association, Inc., 70 East 45th Street, New York 17, New York.

3 REQUIREMENTS

3.1 MATERIALS.- All chemicals in the kit shall conform to the specifications and standards designated. When materials are used which are not specifically designated, they shall be of the highest photographic quality and suitable for the purpose.

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3.2 FORM.- Each powdered chemical shall be dry, free-flowing, without lumps or clusters, and in such form as to dissolve easily.

3.3 WEIGHT TOLERANCE.- The weight of each chemical shall be accurate to within two percent of the specified weight. The weight of the contents of each container shall be accurate to within three percent of the specified weight.

3.4 COMPONENTS.- The kit shall consist of an instruction sheet and seven separate packages of chemicals as follows:

- 1 package of Prehardener, Formula UH-1
- 1 package of First Developer, Formula RN-1
- 2 packages of Bleach, Formula RB-1 or RB-2
- 1 package of Clearing Bath, Formula RC-1
- 1 package of Second Developer, Formula RP-1
- 1 package of Fixing Bath, Formula RF-2 or alternate

3.5 CONTAINERS.- Inner containers shall be used to package chemicals of a formula which must be kept separated until use. Each main container shall enclose one package of a formula, including any necessary inner containers. The seven main containers shall be packaged with an instruction sheet in an outside container.

3.5.1 Container Material.-

3.5.1.1 Outside Container.- The outside container shall be a single rectangular-shaped carton made of V-Board, of such size as to snugly enclose the contents of the kit, and of such strength as to withstand normal handling and shipment without tearing or breaking.

3.5.1.2 Main Containers.- The main containers shall be of tinplate or terneplate conforming to the requirements of Federal Specification O-P-16 and shall preclude the possibility of interaction between the containers and the chemicals with which they come in contact. The containers may be round, square or rectangular in cross section. The containers shall be hermetically sealed and shall be equipped with suitable means for opening, such as key-type, rip-strip opening.

3.5.1.3 Inner Containers.- The inner containers shall be of such material as to preclude the possibility of interaction between the container and the chemicals with which it comes in contact. The inner containers shall be so constructed as to eliminate the possibility of the contents sifting or leaking.

3.5.1.4 Glass Bottles.- Inner containers made of glass shall conform to the requirements of Federal Specification O-P-16 and may be round, oblong, or rounded square with sloping shoulders.