

DEPARTMENT OF THE ARMY SUPPLY BULLETIN

Storage Serviceability Standard for USAECOM Materiel CAMERA SET, STILL PICTURE KS-15 (4)

Headquarters, Department of the Army, Washington, D.C.
26 May 1972

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SECTION I. INTRODUCTION

1. Purpose.

This bulletin provides a storage serviceability standard which establishes uniform criteria for determining the acceptability of the items designated herein for continued storage and/or issue, on the condition that all specifications and requirements applicable to the items have previously been met at the time of receipt from new procurement, or after repair, overhaul, or rebuild by a CONUS depot maintenance shop.

2. Scope.

This bulletin applies to all activities engaged in the receipt, storage, and issue of Camera Set, Still Picture KS-15(4) hereinafter referred to as the camera set listed in appendix B with the federal stock number (FSN).

3. **Definitions.** a Definitions for the majority of specialized terms used can be found in MIL-STD-109B.

b. Definitions for other specialized terms are as follows:

(1) *Storage serviceability standard.* A written procedure providing storage methods and standards and prescribing the necessary requirements for the surveillance of materiel in storage.

(2) *Storage quality level (SQL).* That quality level applicable to storage sampling inspection expressed in terms of percent defective or defects per 100 units, whichever is applicable, specified for a given group of defects of a product. It is the maximum allowable accidental departure from specification requirements which can be tolerated.

4. General. It is the Army's objective to attain and maintain a constant materiel readiness status for materiel in depot stocks. The scope of such an objective is of such magnitude that only general guidelines are provided by chapter 3, section VIII of TM 743-200-1 for the quality evaluation of materiel in the custody of supply and storage activities. This standard supplements TM 743-200-1 by providing a systematic procedure for **storage cyclic** inspection of the camera set, speci-

fied in paragraph 2 and indicates the limiting degree of deterioration, damage, unsatisfactory storage practices, and other characteristics which are acceptable. It also establishes the basis for identifying materiel requiring segregation, remedial care and preservation, or reclassification action. Applicable requirements of the standard may be used for performing receipt and preshipment quality control inspections.

5. Reporting of Supply Bulletin Improvements. Reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commanding General, U.S. Army Electronics Command, ATTN: AMSEL-MA-S, Fort Monmouth, N. J. 07703.

SECTION II
STORAGE AND SPECIAL INSTRUCTIONS

6. Preservation, **Packaging, and Packing.** Preservation, packaging, and packing of the camera set will be in accordance with the requirements listed in appendix C.

7. **Marking.** Marking of the camera set will be in accordance with MIL-STD-129D.

8. **Storage. a. Type.** The preferred type of storage environment for the camera set is a controlled humidity warehouse or heated warehouse.

b. Age Control. The camera set will be issued on a first-in-first-out (FIFO) basis by date of manufacture or date of rebuild. The dates can be established from the original pack date.

c. Shelf Life. The camera set is subject to de-

terioration during storage and is required to be inspected and tested as specified in appendix D.

d. Precautionary Actions. When the camera set is being prepared for storage or issue, be sure that there are enough personnel and sufficient moving apparatus available to eliminate the possibility of damage to the equipment or injury to the personnel.

9. Disposition of Rejected Materiel. Rejected materiel will be tagged and reclassified into the proper condition code in accordance with AR 725-50. For other than new materiel, all defective units in a lot shall be repaired, or disposition requested in accordance with AMC and depot procedures.

APPENDIX A
REFERENCES

AR 725-50	Requisitioning, Receipt, and Issue Systems	PPP-B-601	Box, Wood, Cleated Plywood
MIL-P-116	Preservation, Methods of	PPP-B-621	Box, Wood, Nail and Lock Corner
MIL-STD-105	Sampling Procedures and Table:: for Inspection by Attributes	PPP-B-636	Box, Fiberboard
MIL-STD-109B	Quality Assurance Terms and Definitions	PPP-F-320	Fiberboard, Corrugated and Solid, Sheet Stock
MIL-B-131	Fabricated Barrier Bags	PPP-T-45	Tape, Gummed, Paper Reinforced and Plain
MIL-STD-129D	Marking for Shipment and Storage	PPP-T-76	Tape, Pressure-Sensitive, Adhesive Paper
MIL-STD-147	Palletized and Containerized Unit Loads	PPP-T-97	Tape, Pressure-Sensitive, Filament
NN-P-71	Pallet, Softwood	QQ-S-781	Strapping Steel. Flat and Seals
PPP-B-585	Box, Wood, Wirebound	TM-743-200-1	Storage and Materials I-Ian dling

A P P E N D I X B
FEDERAL STOCK NUMBERS AND TEST REQUIREMENTS

Type	FSN	Publication	Test Requirements
Camera Set, Still Picture	6720 935 7701	TM 11 6720 244 1 ⁹	Paragraph 4 5

APPENDIX C PRESERVATION, PACKAGING, AND PACKING

1. Preservation and Packaging.

Preservation and packaging shall be level A, or C as specified.

a. Level A.

(1) *Cleaning.* The camera set shall be cleaned in accordance with process C-1 of MIL-P-116.

(2) *Drying.* The camera set shall be dried in accordance with applicable procedure of MIL-P-116.

(3) *Preservation application.* None required.

(4) *Unit Packaging.* Unit packaging shall be in accordance with the methods prescribed in MIL-P-116 as specified herein.

(a) *Technical literature* Technical literature shall be packaged method 1C-1 of MIL-P-116.

(b) *The Camera Set* Each camera set shall be individually packaged method 1A-14 as follows: Place the camera and accessories within the designated compartments of the carrying case, close the case and secure with fasteners provided. Cushion the case on all surfaces with pads or cells or both fabricated of fiberboard conforming to PPP-F-320, type CF, class domestic, variety SW, grade 200. designed to protect all projections and absorb the shock of impact in handling and transit. Place the cushioned case within a close fitting fiberboard conforming to PPP-B-636, type CF, class domestic, variety SW, grade 200. Close the box with tape conforming to PPP-T-45, type III. Blunt all corners of the box and cover any exterior stapling or stitching with tape conforming to PPP-T-45. Place the box within a barrier bag fabricated of material conforming to MIL-B-131, class 1, with sufficient allowance in one direction to permit two subsequent resealings. Place the sealed bag within a close-fitting fiberboard box conforming to PPP-B-636, type CF, class weather-resistant, variety SW, grade W5C. Cover any interior stapling or stitching of the box with tape conforming to PPP-T-45. Place the technical literature, packaged as specified in (a) above on top of the contents, directly under the lid of the container. Close the box in accordance with the appendix of the box specification.

b. Level C The camera set shall be preserved and packaged in a manner that will afford adequate protection against physical and environmental damage during shipment, handling and limited intransit storage.

2. *Packing.* Packing shall be level A, B, or C as specified. Shipping containers for all levels shall be capable of stacking and supporting superimposed loads during shipment and storage without damaging the container(s) or its contents.

a. Level A.

(1) *Consolidation.* A quantity of the camera set packaged as specified in 1 above, shall be packed within a close-fitting fiberboard box conforming to PPP-B-636, type CF, class weather-resistant. Box closure shall be as specified in the appendix of the box specification. To facilitate palletization, fiberboard boxes shall be uniform in size and contain equal quantities of the packaged items to the greatest extent practicable.

(2) *Palletized load.* A quantity of containers, packed as specified in a (1) above shall be placed on a pallet, load type 1, conforming to MIL-STD-147 except that the pallet shall be sootwood conforming to NN-P-71, type IV, size 2. A fiberboard cap shall be employed over the load having two sides extending down the stacked load at least 12 inches to accommodate marking requirements. The cap shall be fabricated of fiberboard conforming to PPP-F-320, class weather-resistant, W5s or V3s. The load shall be bonded to the pallet by strapping.

(3) *Less than palletized load.* When quantities per destination are less than a pallet load, the containers packed as specified in a(1) above shall be water-proofed, with tape conforming to PPP-T-76, in accordance with the taping requirements of the appendix of the box specification. A quantity of the waterproofed containers shall be packed within a close-fitting box conforming to PPP-B-601, overseas type; PPP-B-621, style 4, class 2: or PPP-B-585, style 2 or 3, class 3. When the gross weight exceeds 200 pounds, or the container length and width is 48 x 24 inches or more and the weight exceeds 100 pounds, 3 x 4 inch skids, laid flat, shall be applied in accordance with the requirements of the container specification, or if not specified in the specification, in a manner which will adequately support the item and facilitate the use of material handling equipment. Closure and strapping shall be in accordance with the applicable container specification or appendix thereto except that metal strapping shall conform to QQ-5-781, type 1, class B.

b. Level B.

(1) *Consolidation* A quantity of the camera set packaged as specified in C-1 of MIL-P-116, shall be packed as specified in a (1) above.

(2) **Palletized load.** A quantity of containers, packed as specified in a (2) above.

(3) **Less than palletized load.** When quantities per destination are less than a pallet load, the containers packed as specified in a(1) above shall be reinforced by pressure-sensitive filament tape conforming to PPP-T-97, type IV as specified in the appendix of the box specification. No further packing shall be required.

c. **Level C.**

(1) **Consolidation.** A quantity of the camera

set packed as specified in a(1) above, except that the fiberboard boxes shall be class domestic.

(2) **Palletized load.** A quantity of containers, packed as a(2) above, except that the fiberboard cap shall be class domestic.

(3) **Less than palletized load.** When quantities per destination are less than a pallet load, the containers they are packed in shall be used as the shipping container. No further packing shall be required.

APPENDIX D STORAGE QUALITY ASSURANCE PROVISIONS

1. **Index Number.** The four-digit index number of this storage quality assurance provision (SQAP) (reserved for future use in automatic data processing) is to be assigned.

2. **Federal Stock Number.** Each item listed in appendix B, with its federal stock number, is subject to the provisions of this SQAP.

3. **Definitions.** Special terms used in this SQAP are defined as follows:

a. **Acceptance Quality Level (AQL).** The nominal value expressed in terms of percent defective or defects per 100 units, whichever is applicable, specified for a given group of defects of product. It is the maximum allowable accidental departure from specification requirements which can be tolerated.

b. **Storage Quality Level (SQL).** That quality level applicable to storage sampling inspection expressed in terms of percent defective or defects per 100 units, whichever is applicable, specified for a given group of defects of a product. It is the maximum allowable accidental departure from specification requirements which can be tolerated.

c. **Defect.** Any nonconformance of the unit of product with specified requirements.

d. **Defective Unit.** A unit of product which contains one or more defects.

e. **Critical Defect.** A defect that judgement and experience indicate is likely to result in hazardous or unsafe conditions for individuals using, maintaining, or depending on the product performance of the tactical function of a major end item, such as a ship, aircraft, tank, missile, or space vehicle.

f. **Major Defect.** A defect other than critical

that could result in failure, or materially reduce the usability of the product for its intended purpose.

g. **Minor Defect.** A defect that does not materially reduce the usability of the unit of product for its intended purpose, or is a departure from established standards having little bearing on the effective use or operation of the unit.

h. **Mechanical-Visual Inspection.** An inspection by visual means to observe the item and/or its packaging and packing to detect deficiencies. Mechanical-visual inspection may require disassembly.

2. **Technical Inspection.** A complete functional inspection, including disassembly, where required, and performance testing and/or Laboratory testing

4. **Specifications, Technical Manuals, and Other Documents.** The following documents, of the latest issue in effect contain inspection and testing information, data, and instructions applicable to these quality assurance provisions:

Publication	Title
DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Manuals (types 7 8. and 9). Supply Bulletins, and Lubrication Orders.
DA Pam 310-7	US Army Equipment Index of Modification Work Orders
AR 725-50	Requisitioning, Receipt, and Issue System
MIL-P-116	Preservation, Methods of
MIL-P-11268	Parts, Material and Processes Used in Electronic Communications Equipment
MIL-M-13231	Marking of Electronic Items
MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes

Publication	Title
MIL-STD-100	Definitions of and Basic Requirements for Enclosures for Electric and Electronic Equipment
MIL-STD-252B	Wired Equipment. Classification of Visual and Mechanical Defects
MIL-STD-454	Standard General Requirements for Electronic Equipment
MIL-STD-461	Electromagnetic Interference Characteristics Requirements for Electronic Equipment
MIL-STD-726	Packaging Requirement Code
MIL-STD-810	Environmental Test Methods
Tb 750-236	Calibration Requirements for the Maintenance of Army Material
TB SIG 355-1	Depot Inspection Standard for Repaired Signal Equipment
TB SIG 355-2	Depot Inspection Standard for Refinishing Repaired Signal Equipment
TB SIG 355-3	Depot Inspection Standard for Moisture and Fungus Resistant Treatment
TB SIG 355-4	Depot Inspection Standard for Balancing Rotating Parts and Assemblies
TM 11-6720-244-12	Operator and Organizational Maintenance Manual Camera Set, Still Picture KS-15(4)
TM 38-750	The Army Maintenance Management System (TAMMS)

5. Other Directives.

Publication	Title
AR 795-17	General Policies and Principles for Furnishing Army Material on a Grant Aid Basis
AR 795-204	General Policies and Principles for Furnishing Defense Articles and Service on a Sale or Loan Basis

6. Inspection Criteria. a. Lot Criteria.

(1) **Lot definition.** A lot is defined as a group of like items from which a sample is drawn and inspected to determine conformance with the acceptability criteria. The following examples:

(a) A group of like items in storage, which was received in a shipment, with the following identical markings:

1. Purchase order number.
2. Date packaged or packed.
3. Depot certification stamp and date.

(6) A group of like items repaired or rebuilt by the Maintenance Division in one production run.

(2) **Lot formation.** The items shall be assembled into identifiable lots. Each lot shall, as

far as practicable, consist of units of product of a single type, grade, manufactured, repaired, or rebuilt at the same time and stored under the same conditions. It is recommended that equipments from different limited production buys be placed in different lots and that equipment serial numbers, by limited production buy, be used as lot formation criteria.

(3) **Lot size.** The lot size is the total number of individual like items in the lot that is to be inspected.

b. Sampling Procedure.

(1) **Sample selection.** Select samples of material in a way which will assure that each unit in the lot has an equal chance of being selected. Biased methods, such as selecting items from the same position in a container, pallets, or stacks; taking items all from one location; or selecting items that appear defective, will not be used.

(2) **Sample size.** Use table 1 of MIL-STD-105D, General Inspection Level II, to obtain the sample size code letter, and table IIA of MIL-STD-105D, to obtain the sample size using the storage quality level shown in (3) below.

(3) Storage quality levels (SQL).

(a) Mechanical-visual inspection: critical SQL 1.0 percent; major SQL 2.5 percent; minor SQL 10 percent.

(b) Electrical: critical SQL 1.0 percent major SQL 2.5 percent.

(c) Preservation, packaging, packing, and marking: major SQL 4.0 percent; minor SQL 10 percent.

(d) The acceptance or reject number for the above SQLs shall be the same as those shown for comparable quality levels (AQLs) in table IIA of MIL-STD-105D.

c. **inspection Requirements.** The following mechanical-visual inspections shall be performed:

(1) Inspect case for physical damage, condition, and finish.

(2) Inspect all controls and switches for proper operation and loose, or missing hardware.

(3) Inspect all connectors, plugs, and cord receptacles for condition and damage.

(4) Inspect cabling and wiring for potential short circuits, cuts, breaks, fraying, deterioration, kinks, and strain.

(5) Inspect solder connections for missing solder, cold solder, and improper wrap.

(6) **Inspect for illegible, incorrect, or missing**

(7) Inspect for corrosion dirt, moisture, and fungus.

(8) Inspect all parts and hardware for damage and condition.

(9) Inspect assembly for physical damage, condition, missing parts, foreign objects, and finish.

d. Test Requirements. Perform those tests that are specified for each camera set listed in appendix B.

e. Defect Classification.

(1) *Mechanical- Visual.*

(a) *Critical.* Refer to the definition of a critical defect as specified in 3 e. above.

(b) *Major.*

1. Damage due to handling or storage (crushed, deformed, or broken).

2. Soldering: defects as listed in MIL-STD-252B.

3. Solderless connectors: defects as listed in MIL-STD-252B.

4. Cabling and wiring: defects as listed in MIL-STD-252B.

5. Fastening hardware and assembly: defects as listed in MIL-STD-252B.

6. Foreign objects: defects as listed in MIL-STD-252B.

7. Potential short circuits: defects as listed in MIL-STD-252B.

8. Finish: defects as listed in MIL-STD-252B.

9. Marking: defects as listed in MIL-STD-252B.

Parts: defects as listed in MIL-STD-252B.

11. Contacts: defects as listed in MIL-STD-252B.

12. Plating: painting, or MFP missing. a dimensional defect which directly affects inter-changeability, assembly, or operation.

(c) *Minor.*

1. Soldering: defects as listed in MIL-STD-252B.

2. Solderless connectors: defects as listed in MIL-STD-252B.

3. Cabling and wiring: defects as listed in MIL-STD-252B.

4. Hardware: defects as listed in MIL-STD-252B.

5. Finish: defects as listed in MIL-STD-252B.

6. Marking: defects as listed in MIL-STD-252B.

7. Parts: defects as listed in MIL-STD-252B.

8. Contacts: defects as listed in MIL-STD-252B.

(2) *Electrical.*

(a) *Critical.* Refer to the definition of a critical defect as specified in 3e. above.

(b) *Major.* My electrical defect, other than critical that does not meet the requirements specified for each item shall be considered a major defect.

(c) *Minor.* None. All electrical defects shall be considered critical or major, as applicable.

(3) *Packaging and marking, major.*

(a) Use of improper or defective material.

(b) Quantity in unit package not as specified.

(c) Incorrect packaging method applied.

(d) Cushioning or padding omitted.

(e) Cushioning or padding inadequate for the protection of the barrier material from projections, sharp edges, or other similar features of the item.

(f) Cushioning inadequate or the physical and mechanical protection of the item.

(g) Unsealed, punctured, or improperly sealed barrier bag, wrap, or envelope.

(h) Stock number omitted, Incorrect, or illegible.

(i) Nomenclature omitted, incorrect, or illegible.

(j) Marking of quantity of items an package omitted, incorrect, or illegible.

(k) Different stock numbered items in same unit package.

(4) *Packaging and marking, minor.*

(a) Item not properly blocked or braced within the unit package to prevent movement.

(b) Packaging material damaged.

(c) Conforming or cushioning wraps are not snug fitting and contain voids

(d) Air not expelled from barrier prior to sealing.

(e) Any item of marking information other than (3) (h), (i), and (j) listed above under major defects, omitted, incorrect, or illegible.

(5) *Packaging and marking, major*

(a) Use of improper or defective material.

(b) Quantity in pack not as specified.

(c) Gross weight in excess of specified amount.

(d) Box closure not as specified amount.

(e) Type, grade, class, and style of the shipping container not as specified.

(f) Strapping omitted (when required).

(g) Strapping inadequate or incorrectly applied (when required).

(A) Items not adequately blocked, braced, or cushioned within the shipping container to prevent movement or damage.

(i) Shipping documents or packing list omitted.

(j) Stock number omitted, incorrect, or illegible.

(k) Nomenclature omitted, incorrect, or illegible.

(l) Marking of quantities of items in pack omitted, incorrect, or illegible.

(m) Destination marking omitted, incorrect, or illegible.

(n) Special marking or labeling (when required) omitted, incorrect, or illegible.

(o) Overseas code marking (when required) omitted, incorrect, or illegible.

(6) Packing and marking, minor.

(a) Unsealed carton.

(b) Defective taping or sealing of carton.

(c) Any other box defect which may be considered minor by definition of MIL-STD-105.

(d) Any item of required marking information other than (5) (j) through (o) listed above under major defects, omitted, incorrect, or illegible.

f Calibration of Measuring and Test Equipment.

All measuring and test equipment shall have been calibrated and certified within its prescribed period, in accordance with TB 750-236, before use. Certification shall be affixed in such a way as to preclude any altering or tampering.

g. Storage Inspection Records. Results of inspections and tests shall be recorded on data sheets and a copy attached to each unit.

7. Inspection Frequency. a. Controlled humidity warehouse: 60--months.

b. Heated warehouse: 36 months.

c. Unheated warehouse: 18 months.

8. Type of Storage. Controlled humidity warehouse or heated warehouse.

9. Other Instructions. a. **Rejected Lots.** Each lot shall be tagged and reclassified into the proper condition code in accordance with AR 725-50. For other than new material, all defective units in a lot shall be repaired, or disposition requested in accordance with AMC and depot procedures.

b. **Repackaging of Samples Inspected.** Restore the packaging of the samples inspected and accepted to the level of the lot from which the samples were drawn.

10. Special Requirements. If the subject items are allocated for Foreign Military Sales, Grant Aid, or Loan, the following additional requirements must be met:

a. Policies and Special Conditions.

Publication	Title
AR 795-17	General Policies and Principles for Furnishing Army Materiel on a Grant Aid Basis
AR 795-204	General Policies and Principles for Furnishing Defense Articles and Services on a Sale or Loan Basis
DD Form 1513	Offer and Acceptance

NOTE:

Special terms, conditions, and agreements with the customer country and shown on the DD Form 1513 must be compiled with as well as any special instructions from the responsible commodity command

b. **Basic Issue Last Items (BILI).** BILI deck, normally furnished to the depots by USAECOM BILI Office, Lexington Blue Grass Army Depot, Lexington, Ky., office symbol AMSEL-MA-AM-1L, shall be used.

c. **Level A Packaging and Packing.** Level A packaging and packing is mandatory for Foreign Military Sales and Grant Aid shipments.

d. **Depot Documentation.** Depot documentation of final acceptance shall be furnished to ECOM quality check team before ECOM inspection.

By **Order of the Secretary of the Army:**

W. C. WESTMORELAND,
General, United States Army,
Chief of Staff.

Official:

VERNE L. BOWERS, -
Major General, United States Army,
The Adjutant General.

Distribution.

To be distributed in accordance with DA Form 12-34 (qty rqr block No. 52). requirements for SB 740-series, Storage, Serviceability. Standards

END

7-18-83

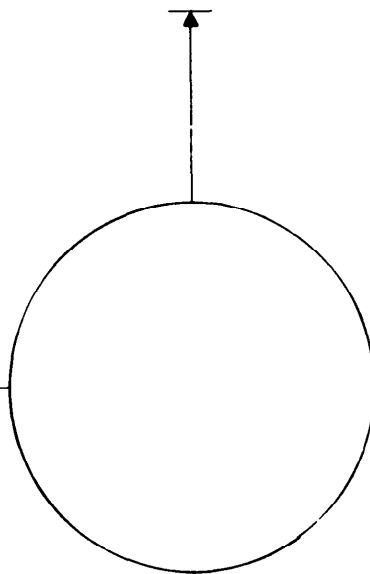
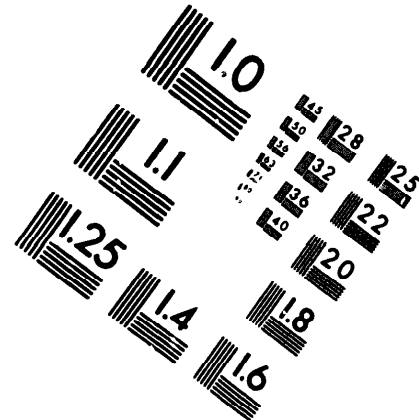
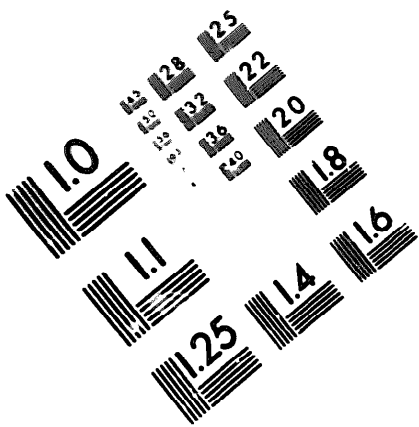
DATE





DEPARTMENT OF THE ARMY

MICROFORM TEST TARGET



150 MM

1.0 mm (e = 81 mm)

ABCDEFGHIJKLMN OPQRSTUVWXYZ 1234567890
abcdefghijklmnopqrstuvwxyz \$%&' / % # 1/2 1/4 3/4 — = + x & @ *

1.5 mm (e = 109 mm)

ABCDEFGHIJKLMN OPQRSTUVWXYZ 1234567890
abcdefghijklmnopqrstuvwxyz \$%&' / % # 1/2 1/4 3/4 — = + x & @ *

2.0 mm (e = 137 mm)

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 \$%&' / % # 1/2 1/4 3/4 — = + x & @ *

2.5 mm (e = 177 mm)

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 \$%&' / % # 1/2 1/4 3/4 — = + x & @ *

1.0 mm (e = 81 mm)

ABCDEFGHIJKLMN OPQRSTUVWXYZ 1234567890
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1.5 mm (e = 109 mm)

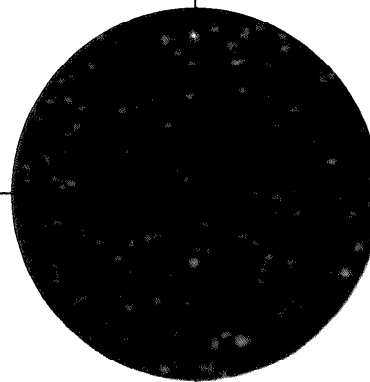
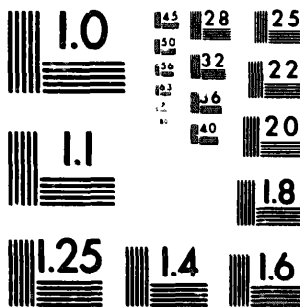
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2.0 mm (e = 137 mm)

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 \$%&' / % # 1/2 1/4 3/4 — = + x & @ *

2.5 mm (e = 177 mm)

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 \$%&' / % # 1/2 1/4 3/4 — = + x & @ *



200 MM

250 MM

