

[NOT MEASUREMENT
SENSITIVE]
FED-STD-793B
May 22, 2006
SUPERSEDING
FED-STD-793A
October 15, 1998

FEDERAL STANDARD

DEPOT STORAGE STANDARDS

The General Services Administration has authorized the use of this federal standard by all federal agencies.

1. **SCOPE.** This standard details depot storage conditions, depot inspection instructions, and shelf-life extension criteria for GSA-managed shelf-life material.

2. **REFERENCED DOCUMENTS.** ANSI/ASQC Z1.4, Sampling Procedures and Tables for Inspection by Attributes (copies may be obtained from American Society for Quality Control (ASQC), P.O. Box 3066, Milwaukee, WI 53201-3066, ASQC Web Site, {<http://www.asqc.org>}). Joint Directive DLAD 4155.37/AR 702-18/NAVSUPINST 4410.56A/AFJMAN 23-232/MCO 4450.13A, Material Quality Storage Standards Policy for Shelf-Life Material copies may be accessed from the DOD Shelf-Life Web Site, (<http://www.shelflife.hq.dla.mil>)

3. GENERAL INSTRUCTIONS FOR INSPECTION.

3.1 Statistical Sampling. Sampling shall be in accordance with ANSI/ASQC Z1.4, Sampling Procedures and Tables for Inspection by Attributes, unless otherwise specified.

3.2 Shelf-Life Extension Criteria. The material shall be sampled and inspected as specified in the special inspection instructions (Section 5) or applicable specification. Where no sampling plan exists, each inspecting service or agency shall follow their internal guidance. The material should be considered suitable for

Beneficial comments, recommendations, additions, deletions or clarifications should be sent to the General Services Administration, Federal Supply Service, Policy Standards Division, Washington DC 20406.

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issue, and the shelf-life extended, if the number of defects does not meet or exceed the rejection number for the AQL (i.e., SQL) specified. Material failing to meet the acceptance criteria shall be disposed of in accordance with inspecting service or agency directives. For commodities not covered by Section 5, further guidance may be obtained from the responsible GSA Center listed in Section 4.

3.3 Length of Shelf-Life Extension. The method of calculating the new re-inspection date shall be determined by the directives of the inspecting service or agency. The length of extension will normally be one-half (1/2) of the original shelf-life. At GSA Depots, for example, the length of extension is one-half (1/2) of the original shelf-life for the first inspection, one-third (1/3) of the original shelf-life for the second re-inspection, and the remaining shelf life time for the third re-inspection. An extension period containing a fraction of a month should be rounded up to the next whole month.

3.4 Maximum Shelf-Life Extensions. Unless otherwise specified in Section 5, the re-inspection date of Type II (extendible) items may not be extended beyond the date determined by adding 2 times the item's original shelf-life to the date of manufacture. For example, a paint in FSC 8010 with a date of manufacture (MM/YY) of 05/05 and a shelf-life code of 6 (24 months) may not have its re-inspection date extended beyond 05/09. Government entities are at liberty to reach the maximum extension date allowable in two or three increments. At GSA depots, for example, the aforementioned paint is extended in three increments: until 05/08 after the first inspection, 01/09 after the second re-inspection and 05/09 after the third and final re-inspection.

3.5 Shelf-Life Extensions Label. Extended items shall receive an extension label (or notice) displaying at least the new extension date in addition to the NSN, contract or purchase order numbers, lot or batch numbers, inspection or test dates, next re-inspection or test dates, and the inspector's identification.

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3.6 Inspection Results - Recommended Changes. Failure of material to pass shelf-life inspection may indicate inadequate storage conditions, or an inappropriate shelf-life code. Repeated shelf-life extensions may indicate that a longer shelf-life code should be assigned. Recommended changes to shelf-life codes should be forwarded to the GSA Center responsible for that stock class (see Section 4).

4. GSA COMMODITY CENTERS

For additional information concerning GSA managed items, contact the Commodity Center responsible for that federal supply class (FSC) or federal supply group (FSG).

GSA
Office of Vehicle Acquisition
FSS-FFA
Washington, DC 20406
703-308-4670
FAX 305-3034

FSC/FSG: 2310, 2320, 2330, 24-29, 38, and 4210 (fire trucks only).

GSA
Hardware & Appliances Center
FSS-6FET
1500 E. Bannister Rd.
Kansas City, MO 64131
816-926-2784
FAX 926-1371

FSC/FSG: appliances in 3510, 4110, 4120, 4140, 51-52, 7310, 7320, 80 and 91.

GSA
Furniture Center
FSS-3FNE-CO
Washington, DC 20406
703-305-6338
FAX 308-3658

FSC/FSG: 6230, 71 (except frames), 7220, 7230, and 7540.

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GSA

Office Supplies & Paper Products Center

FSS-2FYE

26 Federal Plaza

New York, NY 10278

212-264-3573

FAX 264-3574

FSC/FCG: 3540, 5820, 5825, 5835, 5836, 5965, 6130, 6645, 6650, 6675, 6680, 6850, 69, 7025, 7045, 7105 (frames), 7110, 7125, 7195, 7420 (calculators), 7430 (typewriter covers), 7460, 7490 (embossing machines), 7510, 7520, 7530, 7610, 7690, 8040, 8105, 8110, 8115, 8125, 8135, 8540, 9310.

GSA

Southwest Supply Center

FSS-7FLE

819 Taylor Street

Fort Worth, TX 76102

817-574-2390

FAX 574-2395

FSC/FCG: FORG, MECA, MFFP, MSDS, THDS, 10, 12, 13, 15, 16, 17, 19, 20, 22, 23, 2805, 30, 31, 3510 (except laundry equip.), 3540, 3550, 3590, 36 (except 3610 & 3615), 38, 39, 4010, 4020, 4030, 4130, 4210, 4220, 4230, 4235, 4240 (except fire trucks), 4250, 4310, 4220, 4330, 4410, 4420, 4430, 4440, 4460, 4470, 4510, 4520, 4530, 4540, 46, 47, 48, 4910, 4920, 4921, 4923, 4925, 4927, 4930, 4931, 4933, 4935, 4940, 4953, 4960, 51 (fire items only), 5305, 5306, 5307, 5310, 5315, 5320, 5325, 5330, 5335, 5340, 5342, 5345, 5350, 5355, 5360, 5410, 5411, 5420, 5430, 5440, 5445, 5450, 5510, 5520, 5530, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5675, 5680, 5910, 5915, 5920, 5925, 5925, 5930, 5935, 5940, 5945, 5955, 5960, 5961, 5962, 5963, 5965, 5970, 5975, 5977, 5985, 5990, 5995, 6010, 6015, 6020, 6030, 6060, 6070, 6080, 6105, 6110, 6115, 6116, 6117, 6117, 6120, 6125, 6135, 6140, 6145, 6150, 6210, 6220, 6230, 6240, 6250, 6260, 6310, 6320, 6330, 6340, 6350, 6545, 6600, 6605, 6610, 6615, 6620, 6625, 6635, 6636, 6640, 6650, 6655, 6660, 6665, 6670, 6675, 6680, 6685, 6695, 6700, 6720, 6730, 6740, 6750, 6770, 6780, 6810, 6820, 6830, 6840, 6850, 6930 (fire items only), 7310, 7320,

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7330, 7340, 7350, 7360, 7530 (forms), 7540 (forms), 77, 78, 7910, 7920, 7930, 8305, 8310, 8315, 8320, 8325, 8330, 8335, 8340, 8345, 84, 8510, 8530, 8540, 8710, 8720, 88, 9110, 9130, 9135, 9140, 9410, 9420, 9430, 9440, 9450, 9515, 9520, 9530, 9540, 9545, 9610, 9620, 9630, 9640, 9650, 9905, 9910, 9920, 9925, 9930.

5. SPECIAL INSPECTION INSTRUCTIONS FOR SELECTED COMMODITIES.

5.1 FSC 4210 - Fire Fighting Equipment

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings shall be securely attached, clear and legible.

For fire fighting chemicals, refer to paragraph 5.12, FSC 6810. The first and second re-inspections for this material shall be in accordance with the first inspection for FSC 6810.

For non-metallic hose and hose assemblies, on the first re-inspection, the sample shall be removed from the storage container, fully extended, and examined visually for debris, mildew, rot and other physical damage. The inspection shall include all visible components of the hose/hose assembly.

On the second reinspection, the sample shall be evaluated in accordance with the latest edition of NFPA 1962, Standard for the Care, Use and Service Testing of Fire Hose Including Couplings and Nozzles.

5.2 FSC 4240 - Respiratory Masks with Air Lines

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

The regulator shall show no signs of corrosion. The

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breathing tube, upon being stretched, shall show no evidence of cracks or holes. The face mask, after being subjected to light bending and twisting, shall show no evidence of cracks or flaking. The head strap shall show no signs of corrosion to metal parts, fraying of cloth parts, or cracking of rubber parts.

5.3 FSC 4240 – Industrial Gas Masks

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

One end of the breathing tube assembly shall be subjected to a pressure controlled air source with pressure regulator set to furnish 10 inches of water with the other end of the tube sealed tightly. The breathing tube assembly shall then be submerged in water to test for leaks. No leaks shall be permitted. As a condition for extending the shelf life of the gas mask, the accompanying canisters shall be replaced.

5.4 FSC 5640 – Duct Tape

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

The duct tape shall be visually examined for defects which may impair usefulness. Adhesive remains active, tape does not tear when unwound. If adhesion does not appear adequate or if the tape strength appears compromised, test one roll for adhesion and one roll for tensile strength. Minimum adhesion shall be 40 ounces/inch width in accordance with ASTM D3330, Procedure A. Minimum tensile strength shall be 25 pounds/inch width in accordance with ASTM D3759.

5.5 FSC 5970 – Electrical Coating

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Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

The electrical coating, upon being brushed onto a test splice, shall demonstrate good fluidity, permitting an effective coating of the splice.

5.6 FSC 5970 – Insulation Tape, Electrical, Pressure Sensitive Thermosetting Adhesive

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

A short segment of tape shall be unrolled and then cut or torn from the roll. The segment of tape shall have good adhesion without any fraying or other damage.

5.7 FSC 5970 – Insulation Tape, Electrical, Friction

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

A short segment of tape shall be unrolled and then cut or torn from the roll. The segment of tape shall have good adhesion without any fraying or other damage.

5.8 FSC 6230 – Light Sets, Emergency and Auxiliary

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

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Sealed maintenance-free batteries shall not show any evidence of leakage or terminal corrosion.

5.9 FSC 6505 - Antiseptic Kit

Inspection plan: Level 1, AQL 1.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

The following components of the Antiseptic Kit shall be visually inspected:

Povidone Iodine bottle shall be inspected for evidence of Iodine leakage around the cap area. Tamper-evident seal shall be intact and show no sign of tampering. The kit shall be inspected for evidence of gas permeating through the walls of the bottle. Such evidence includes staining or discoloration of surrounding items within the kit.

Povidone Iodine swabs shall be inspected for evidence of leakage from the Iodine ampoule. The ampoule shall be intact and show no sign of damage or other contamination.

5.10 FSC 6545 - First Aid Kit, General

Inspection plan: Level 1, AQL 1.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

The following components of the First Aid Kit shall be visually inspected.

Eyewash Solution container shall be inspected for evidence of leakage. Tamper-evident seal shall be intact and show no sign of tampering.

Aspirin Tablet packets shall be inspected for conditions such as torn or damaged packaging, stains or discoloration, or evidence of soiling or other contamination.

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Acetaminophen Tablet packets shall be inspected for conditions such as torn or damaged packaging, stains or discoloration, or evidence of soiling or other contamination.

The following components of the Antiseptic Kit shall be visually inspected.

Povidone Iodine bottle shall be inspected for evidence of Iodine leakage around the cap area. Tamper-evident seal shall be intact and show no sign of tampering. The kit shall be inspected for evidence of gas permeating through the walls of the bottle. Such evidence includes staining or discoloration of surrounding items in the kit.

Povidone Iodine swabs shall be inspected for evidence of leakage from the Iodine ampoule. The ampoule shall be intact and show no sign of damage or other contamination.

5.11 FSC 6750 - Sodium, Sulfite, Anhydrous - Photographic

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

The physical and functional requirements for this product shall be in accordance with ISO 418 and all associated test methods.

Upon re-inspection, determine that the powder is free flowing and insure that it does not contain any clumping of material. Sodium shall be free of any foreign materials, including water or liquid. Any of these listed defects will constitute failure and rejection of the material.

Unless otherwise stated on the containers, the material is recommended to be stored at room temperatures between 50 and 80 degrees F.

5.12 FSC 6810 - Chemicals.

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Inspection plan: Level S-2, SQL 4.0 percent defective.

Containers shall be secure and free from leaks, rust and other contaminants, and bulges. Markings shall be securely attached, clear and legible.

On the first re-inspection, liquid products shall be homogeneous solutions with no separation, sediment, putrefaction or other degradation. Solid products shall be free flowing with no significant water absorption or other contamination.

On the second re-inspection, the material shall be analyzed for the active ingredients specified on the label. If the level of active ingredients is not more than 10 percent below that specified on the label, the shelf-life may be extended once more.

Material shall be stored at temperatures between 32 and 90 degrees F (0 and 32 degrees C).

5.13 FSC 6840 - Disinfectant, Disinfectant-Detergent, and Sanitizer-Detergent.

See paragraph 5.12.

5.14 FSC 6850 - Miscellaneous Chemical Specialties.

See paragraph 5.12.

5.15 FSC 7350 Tube, Drinking, Plastic (STRAW)

Inspection Plan: Level S-2, SQL 4.0 percent defective

Unit, intermediate, and shipping containers shall be secure and free from leaks, contaminants, or significant damage. Markings on all containers shall be securely attached, clear, and legible.

Randomly select several boxes and examine the paper wrapping covering the drinking straws. The paper wrapping shall be free of holes, dirt, and discoloration.

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5.16 FSC 7510 Inks. The following criteria apply to the subparagraphs below.

Inspection plan: Level S-3, SQL 2.5 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from leaks, contaminants, dents, bulges, or other distortion. Markings on all containers shall be securely attached, clear, and legible. The ink shall be in uniform suspension with no settling or caking.

5.16.1 Ink, Drawing (Waterproof, Colored)

5.16.2 Inks, Marking Stencil, Opaque, A-A-208

5.16.3 Inks, Stamp Pad, A-A-209

5.16.4 Ink, Writing Red, A-A-2749

5.16.5 Ink, Numbering and Dating Machine, A-A-2751

5.16.6 Ink, Writing For Fountain and Dip Pens, A-A-2752

5.16.7 Ink, Black, For Duplicating Process, A-A-2753

5.16.8 Ink, Stencil, Duplicating Process, Black, A-A-2754

5.16.9 Ink, Drawing, Waterproof, Black, A-A-2767

5.17 FSC 7510 Ribbons. The following criteria apply to the subparagraphs below.

Inspection plan: Level S-4, SQL 2.5 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from leaks, contaminants, or significant damage. Markings on all containers shall be securely attached, clear, and legible. Ribbons of uneven weave, with frayed edges, slits, or knots shall be cause for rejection. Performance may be evaluated by selecting one ribbon from each lot, batch or order number to test for desired characteristics. Assess the ribbon's performance in the machine for which it is specified. When used on the

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designated machine model, ribbons shall produce clear, clean, and legible type impressions. If performance is satisfactory, the shelf-life may be extended.

5.17.1 Ribbon, Printing, Cotton and Nylon, A-A-370

5.17.2 Single Strike Typewriter Ribbons, A-A-416

5.17.3 Ribbons, Typewriter, A-A-417

5.17.4 Ribbon, Teletypewriter, A-A-419

5.17.5 Ribbon, Accounting Machine, A-A-420

5.17.6 Ribbon, Machine (Word Processing), A-A-2367

5.18 FSC 7510 - Tape, Pressure-Sensitive

Inspection plan: Level S-2, SQL 4.0 percent defective.

Containers shall be secure and free from damage. Markings shall be securely attached, clear and legible.

Items procured under military specifications shall be tested for, and comply with, all specification requirements. Items bought to Federal specifications or Commercial Item Descriptions (CID's) shall be tested for the following specification requirements.

<u>Property</u>	<u>Test Method</u>
Adhesion	ASTM D3330
Holding Power	ASTM D3654
Tensile Strength	ASTM D3759
Bursting Strength	ASTM D3662 (When specified and required)
Unwind Force	ASTM D3811 (When specified and required)

Pressure-sensitive adhesive tapes deteriorate more rapidly as the storage temperature increases. These items should be issued strictly by the earliest date of manufacture. Where storage temperatures exceed 80 degrees F (27 degrees C), stock levels should be decreased and stock turn increased to minimize the storage time at elevated temperatures.

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5.19 FSC 7520 Pens and Markers. The following criteria apply to the subparagraphs below:

Inspection plan: Level S-4, SQL 2.5 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from leaks, contaminants, or significant damage. Markings on all containers shall be securely attached, clear, and legible.

Performance - select three pens/markers/refills at random from each lot, batch or order. Test the samples on a writing pad or paper under normal working conditions and temperature. Defects such as blobs, skips, dotting and density variations of line intensity in any of the samples shall constitute failure.

5.19.1 Pen, Roller-ball, A-A-2695

5.19.2 Marker, Tube Type, Fine Tip, Transparency, A-A-2756

5.19.3 Marker, Tube Type, Felt Tip, A-A-2758

5.19.4 Marker, Tube Type, Fine, Felt Tip A-A-2778

5.19.5 Marker, Tube & Flat Type, Highlighter, A-A-2779

5.19.6 Pen, Rubberized Barrel, A-A-2905

5.19.7 Pen, Rubberized Barrel, Refills, A-A-2906

5.19.8 Pen, Ballpoint, Non-Refillable, A-A-2907

5.19.9 Pen, Ballpoint (Recycled), A-A-2915

5.19.10 Pen, Ballpoint, Refillable, A-A-2916

5.19.11 Marker, Tube Type, Permanent, A-A 2960

5.19.12 Marker, Assortment, Tube Type, A-A-2942

5.19.13 Marker, Tube Type, White, A-A-356

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5.19.14 Pen, Ballpoint, Cushion Grip, A-A-3167

5.20 FSC 7520 Letter Set, Polystyrene, A-A-2827.

Inspection Plan - Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from leaks, contaminants, or significant damage. Markings on all containers shall be securely attached, clear, and legible.

Select one set from each lot, batch or order to verify desired performance. Randomly select several letters from the set and affix them to the plastic strips in accordance with the manufacturer's instructions. If the adhesion is satisfactory on test sample after eight hours, the shelf life may be extended.

Pressure-sensitive adhesive backed letters deteriorate more rapidly as the storage temperature increases. These types of items should be issued strictly by the earliest date of manufacture.

Where storage temperatures exceed 80 degrees F (27 degrees C), stock levels should be decreased and stock turn increased to minimize the storage time at elevated temperatures.

5.21 FSC 7930 - Cleaning and Polishing Supplies.

Inspection Plan - Level S-2, SQL 4.0 percent defective.

Containers shall be secure and free from leaks, rust and other contaminants, and bulges. Markings shall be securely attached, clear and legible. Liquid products shall be homogenous solutions with no separation, sediment, putrefaction or other degradation. Solid products shall be free flowing with no significant water absorption or other contamination. Material shall be stored at temperatures between 40 and 80 degrees F (4 and 27 degrees C).

5.22 FSC 8010 - Two Component Coating Systems.

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Inspection plan: Level S-2, SQL 4.0 percent defective.

Containers shall be secure and free from leaks, bulges, rust and other contaminants. Markings shall be securely attached, clear and legible. Pigmented components shall be free from grits, seeds, lumps, abnormal thickening or livering, and shall not show pigment flotation or excessive settling which cannot be easily reincorporated to a smooth, homogeneous, pour able condition.

Unpigmented components shall show no trace of particulate matter, either suspended in solution or settled on the inner surface of the container, which cannot be readily dispersed by agitation. Mixing shall be accomplished by hand, power stirrer, or by an automatic shaking device, and shall be completed within 5 minutes of the purchase document requirement.

Materials shall be stored at temperatures between 35 and 115 degrees F (2 and 46 degrees C).

5.23 FSC 8010 - One Component Pre-Mixed Coatings (paints, lacquers, enamels, etc.).

Inspection plan: level S-2, SQL 4.0 percent defective.

Containers shall be secure and free from leaks, bulges, rust or other contaminants.

Markings shall be securely attached, clear and legible. There shall be no hard settling, caking, jelling, skinning, curdling, seeding, rusting or other reaction with the container, putrefaction, separation or other condition which prevents the material from being mixed with an automatic shaking device or with a power stirrer to a smooth and homogeneous state, and without air bubbles. Mixing shall be completed within 5 minutes for 1-gallon and smaller containers, and within 10 minutes for 5-gallon containers.

Material in self-pressurized aerosol dispensers shall be mixable following label directions, and the product shall

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Be able to spray and deposit a uniform film. The product shall be brushed out or sprayed, and shall meet the dry time, application properties, and visual evaluation of gloss and color to the requirements of the purchase document. Any products showing significant deviation from the specified requirements should be laboratory tested to verify the results.

Water-thinned products shall be stored at temperatures between 40 and 115 degrees F (4 and 46 degrees C). Solvent-thinned products shall be stored between 0 and 115 degrees F (-18 and 46 degrees C), except for the following:

<u>Specification</u>	<u>Storage Temperature Range</u>
MIL-P-15931	35-115 degrees F (2-46 degrees C)
MIL-C-83231	35-100 degrees F (2-38 degrees C)
MIL-C-83445	35-100 degrees F (2-38 degrees C)
TT-P-2756	35-115 degrees F (1.7-46 degrees C)

5.24 FSC 8030 - Sealants.

Inspection plan: Level S-2, SQL 1.5 percent defective.

Containers shall be secure and free from leaks, bulges, rust or other contaminants.

Markings shall be securely attached, clear and legible. There shall be no separation, layering, or settling that will not disperse to a homogeneous mixture when mixed. There shall be no conditions which is not typical for the product, such as lumps or inclusions. The viscosity and drying or cure time shall be no more than 10 percent above or below specification limits.

Store in temperature and humidity controlled space. Unless otherwise specified on the package, temperatures shall not exceed 60 degrees F (16 degrees C), and the relative humidity shall not exceed 50 percent.

5.25 FSC 8040 - Adhesives.

See paragraph 5.24.

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5.26 FSC 8520 — Hand Cleaner and Skin Cleanser, Liquid

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

Liquid soap, upon visual inspection, shall not show any evidence of separation of the ingredients. Liquid soap shall not exhibit a rancid odor.

5.27 FSC 8520 — Shampoo and Body Wash

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

Shampoo and body wash, upon visual inspection, shall not show any evidence of separation of the ingredients. Shampoo and body wash shall not exhibit a rancid odor.

5.28 FSC 8520 — Towelettes, Skin Cleansing, Individually Packaged

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

Towelettes shall not show any signs of leakage. A towelette shall be opened, and shall have sufficient moisture to enable cleaning of hands.

5.29 FSC 8520 — Bar Soap and Milled Cake Soap

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be

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securely attached, clear, and legible.

Bar soap and milled cake soap shall be visually inspected and shall not show any discoloration. Bar soap shall not exhibit a rancid odor.

5.30 FSC 8520 – Hydrated Sodium Borate

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

Hydrate sodium borate, upon visual inspection, shall not be congealed, but shall remain in a powdered state.

5.31 FSC 9330 – Plastic Sheet

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

The adhesive layer shall not have separated from the plastic sheet. Test for minimum spectral transmittance in accordance with ASTM D 1003. Test for minimum tensile strength at yield in accordance with ASTM D 638 or D 882.

5.32 FSC 9390 – Reflective Tape

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

The adhesive layer shall not have separated from the reflective tape. Test for minimum coefficient of retro-reflection in accordance with ASTM D 4956.

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5.33 FSC 9905 Holder, Card-Label – Adhesives

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

The minimum peel or stripping of adhesive shall be in accordance with ASTM D903. No part of the surface to which the adhesive is applied shall have bare spots or air pockets. The adhesive shall be of uniform thickness and there shall be no tendency, when removing the protective backing, for the adhesive to separate from the plastic tubing. Holders shall show no evidence of deterioration or change in properties of the adhesive or protective backing such as to make the holders unfit for use when stored under warehouse conditions at a temperature of 70 to 90 degrees F. and 50 percent plus or minus 2 percent relative humidity for one year.

5.34 FSC 9905 Ribbon, Surveyor's Flagging

Inspection plan: Level S-2, SQL 4.0 percent defective.

Unit, intermediate, and shipping containers shall be secure and free from damage. Markings on all containers shall be securely attached, clear, and legible.

The ribbon shall be free of holes, dirt, ragged edges, and discoloration. No defects that affect appearance or serviceability shall be permitted. Tensile strength and elongation shall be determined in accordance with ASTM D638. Tensile Strength – 7.0 lb, minimum. Elongation – 200 percent minimum.

6. KEY WORDS:

depot	shelf	storage
life	shelf-life	

Military Coordinating Activity:

Preparing Activity:

SO

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Appendix A

Characteristics Codes and Definitions

Characteristics codes (formerly: defect codes) are the item characteristics that are looked at when performing visual inspection on items. The listing below of codes and their meanings represent only the codes that apply to GSA managed items. These codes are used in the Material Quality Control Storage Standards (MQCSS) database to provide for the inspection criteria for type II (extendible) shelf life items. A complete listing of codes for GSA and non-GSA managed items are found in the Joint Directive DLAD 4155.37/AR 702-18/NAVSUPINST 4410.56A/AFJMAN 23-232/MCO 4450.13A, Material Quality Storage Standards Policy for Shelf-Life Material. Storage activities use the codes when adding/updating the on-line storage standard data of extendible (type II) shelf life items in the Material Quality Control Storage Standards (MQCSS) database.

<u>Code</u>	<u>Definition</u>
Q9:	Inspection instructions not covered by Fed-Std-793. Contact the commodity center responsible for this FSC (see sec. 4)
R2:	Unsecured, leaking, rusted, contaminated, bulged, dented, distorted, or significantly damaged (containers)
R3:	Not securely attached, unclear, illegible, or incorrect (markings).
R4:	Hard settling, caking, jelling, skinning, curdling, seeding, rusting, putrefaction, separation (Coatings).
R5:	Not in uniform suspension with settling or caking (ink).
R6:	Not mixable, not able to spray or deposit uniform film, or actuator not functional (Paint aerosol dispensers)

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- R7: Uneven weave, with frayed edges, slits, or knots (ribbons)
- R8: Performance unsatisfactory (ribbons produce unclear, unclean, and illegible type impressions).
- R9: Separating, layering, settling, lumping, dispersing into inhomogeneous mixture when mixed (Sealants).
- S2: Blobbing, skipping, dotting and varying density of line intensity (Pens/Markers/Refills).
- S3: Not adhering satisfactorily (Letters).
- S4: Inhomogeneous solutions with evidence of separation, sediment, putrefaction or other degradation (Liquid Chemicals)
- S5: Not free flowing with significant water absorption or other contamination (Solid Chemicals).
- S6: Not free from grits, seeds, lumps (Coatings)
- S7: Abnormal thickening, livering, pigment flotation or excessive settling (Coatings).
- U3: Evidence of reaction between the container and its contents.
- U4: Container not securely sealed and contents show evidence of deterioration.
- U5: Container not tightly sealed and contents show evidence of evaporation.
- U6: Visually observable deterioration
- U7: Typing or printing illegible or not uniform in color on all paper copies or plies.
- U8: Carbon coating appear cracked or flaky (paper)

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- U9: Unsmooth, inhomogeneous mixture not free of lumps, separation or crystallization (floor polish)
- W1: Reinforcement failure - (e.g., metal straps, wire, tape.)
- W2: Skids, runners, or materiel handling aids damaged, inadequate, or deteriorated.
- W3: Blocking and/or bracing inadequate.
- W4: Dark brown or black (not white) liquid (floor wax)
- W5: Rancid (waterless hand cleaner)
- W6: Separation into components (waterless hand cleaner)
- W7: Brittle and water absorption unsatisfactory (paper towels)
- W8: Adhesive layer have separated from the plastic sheet
- W9: Ragged edges, cracks, pits, and dirt; surface not smooth and not flat; backing not completely covered by protective liner (Reflective sheeting)
- V1: Evidence of debris, mildew, rot and other physical damage.
- V2: Failed testing or evaluation; or Not IAW standard and test methods.
- V3: Evidence of cracks, holes, flaking, corrosion, or fraying.
- V4: Evidence of leaks after testing
- V5: Not demonstrating good fluidity.
- V6: Not adhering well; fraying, other damages.
- X1: Evidence of leakage or battery terminal corrosion.

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- X2: Evidence of Iodine leakage; gas permeating through bottle wall.
- X3: Kit components not intact, damaged, contaminated, tampered with; or stained or discolored kit surroundings.
- X4: Container leaking; seal not intact or tampered with; tablet packets torn, damaged, stained, discolored, soiling, or other contamination.
- X5: Powder not free flowing without clumping.
- Y1: Straw Paper wrapping not free of holes, dirt, and discoloration.
- Y2: Evidence of ingredient separation.
- Y3: Rancid odor.
- Y4: Signs of leakage or not having sufficient moisture (towelettes).
- Y5: Showing discoloration.
- Y6: Congealed or not in powdered state.