SECTION C

This document covers flavored cappuccino packaged in a flexible pouch for use by the Department of Defense as a component of operational rations.

C-1 ITEM DESCRIPTION

PACKAGING REQUIREMENTS AND QUALITY ASSURANCE PROVISIONS FOR CID A-A-20336B DRINK MIXES, COFFEE (UNFLAVORED AND FLAVORED)

Type, style, and flavors.

Type V – Flavored instant cappuccino

Style A – Regular

   Flavor 1 – French vanilla
   Flavor 2 – Mocha
   Flavor 4 – Irish cream

Designs.

Design A – Flat pouch (discontinued)
Design B – Flat interlocking closure pouch

Packages.

Package A – Meal, Cold Weather (MCW)
Package B – Food Packet, Long Range Patrol (LRP)
Package C – Meal, Ready-to-Eat™ (MRE™)

C-2 PERFORMANCE REQUIREMENTS

A. Product standard. A sample shall be subjected to first article (FA) or product demonstration model (PDM) inspection as applicable, in accordance with the tests and inspections of Section E of the Packaging Requirements and Quality Assurance Provisions document. The approved sample shall serve as the product standard. Should the contractor at any time plan to or actually produce the product using different raw material or process methodologies from the approved product standard, which result in a product noncomparable
to the product standard, the contractor shall submit a replacement FA or PDM for approval. In any event, all product produced must meet all requirements of this document including product standard comparability.

B. Shelf life. The packaged product shall meet the minimum shelf life requirement of 36 months at 80°F.

C. Dehydrated product.

(1) Appearance. The packaged product shall be free from foreign materials.

   a. Type V, style A, flavor 1. French vanilla shall be an off-white and dark brown color combination.

   b. Type V, style A, flavor 2. Mocha shall be a pale tan and dark brown color combination.

   c. Type V, style A, flavor 4. Irish cream shall be a pale tan and dark brown color combination.

(2) Net weight. The net weight of an individual pouch shall be not less than 28.0 grams.

D. Hydrated product.

(1) Appearance. The hydrated product shall be a medium cream brown color.

(2) Hydration. The product shall fully dissolve within two minutes in hot or cold water with constant stirring or shaking and show no evidence of undissolved floating particles.

E. Palatability and overall appearance. The finished product shall be equal to or better than the approved product standard in palatability and overall appearance.

F. Analytical requirements.

(1) Moisture. The moisture content shall be not greater than 3.0 percent.
(2) Fat. The fat content shall be not greater than 12.0 percent. The trans fat content shall be not greater than 0 grams per serving.

(3) Calories. The product shall contain not less than 120 calories per serving.

(4) Analytical testing. The moisture and fat content procedures and testing shall be in accordance with A-A-20336B.

G. Microbiological requirement.

(1) Salmonella. The Salmonella requirements, procedures, and testing shall be in accordance with A-A-20336B and the NOTE cited in Section E-5.

SECTION D

D-1 PACKAGING

A. Packaging. Twenty-eight grams of product shall be filled into a preformed barrier pouch. The pouch is to be used as a package and as a hydrating pouch for the cappuccino powder.

(1) Flat interlocking closure pouch.

a. Pouch material. The pouch shall be fabricated from 0.002 inch thick ionomer or polyethylene film laminated or extrusion coated to 0.00035 inch thick aluminum foil which is then bonded to 0.0005 inch thick polyester. Tolerances for thickness of plastic films shall be plus or minus 20 percent and tolerance for foil layer shall be plus or minus 10 percent. The material shall show no evidence of delamination, degradation, or foreign odor when heat sealed or fabricated into pouches. The material shall be suitably formulated for food packaging and shall not impart an odor or flavor to the product. The material shall be approved for addition of hot water (less than or equal to 212°F). The complete exterior surface of the pouch shall be uniformly colored and shall conform to number 20219, 30219, 30227, 30279, 30313, 30324, or 30450 of FED-STD-595, Colors Used in Government Procurement.

b. Pouch construction. The pouch shall be a flat design preformed or vertical form-fill-seal pouch with an interlocking closure. The design and dimensions shall be as specified in figure 1. The pouch shall be made by heat sealing the sides and top of the pouch with 3/8 inch (+1/8, -1/4) inch wide seals. The pouch shall exhibit no rupture or seal separation greater
than 1/16 inch when tested for internal pressure resistance. The interlocking closure of the pouch shall not leak more than 15 ml. A tear nick or notch shall be provided on one or two opposite edges of the pouch above the interlocking closure to facilitate opening of the filled and sealed pouch. A 1/8 inch wide lip may be incorporated at the open end of the pouch.

c. Pouch filling and sealing. Product shall be inserted into the pouch and the filled pouch shall be sealed with a 1/8 to 1 inch wide heat seal. The closure seal shall be applied not more than 1/2 inch from the open end of the pouch. The closure seal shall be free of foldover wrinkles or entrapped matter that reduces the effective closure seal width to less than 1/16 inch. Seals shall be free of impression or design on the seal surface that would conceal or impair visual detection of seal defects. The average seal strength shall be not less than 6 pounds per inch of width and no individual specimen shall have seal strength of less than 5 pounds per inch of width. Alternatively, the filled and sealed pouch shall exhibit no rupture or seal separation greater than 1/16 inch or seal separation that reduces the effective closure seal width to less than 1/16 inch when tested for internal pressure resistance.

D-2 LABELING

A. Pouches. Each pouch shall be correctly and legibly labeled. Printing ink shall be permanent black ink or other dark contrasting color which is free of carcinogenic elements. The label shall contain the following information:

(1) Name and flavor of product (letters not less than 1/8 inch high)
(2) Ingredients
(3) Date 1/
(4) Net weight
(5) Name and address of packer
(6) “Nutrition Facts” label in accordance with the Nutrition Labeling and Education Act (NLEA) and all applicable FDA regulations
(7) Directions: Allow water just chemically purified to stand 30 minutes before adding to the cappuccino powder. Tear pouch at notch. Open zipper, add 6 ounces of hot or cold water (about 1/4 canteen cup) to fill line. Close zipper, shake to mix (about 60 seconds). Consume promptly (within 1 hour). Single Use Only.

Fill line: A fill line (not less than 1/32 inch thick, not less than 2 inches long and centered) shall be placed on the pouch/label for 6 ounce fill at 4.0 ± 1/4 inches from the inside edge of the bottom closure seal.
1/ Each pouch shall have the date of pack noted by using a four digit code beginning with the final digit of the current year followed by the three digit Julian day code. For example, 14 February 2015 would be coded as 5045. The Julian day code shall represent the day the product was packaged into the pouch. Sub-lotting (when used) shall be represented by an alpha character immediately following the four digit Julian code.

**D-3 PACKING**


**D-5 MARKING**

A. **Shipping containers.** Shipping containers shall be marked in accordance with DLA Troop Support Form 3556, Marking Instructions for Boxes, Sacks, and Unit Loads of Perishable and Semiperishable Subsistence.

**SECTION E INSPECTION AND ACCEPTANCE**

The following quality assurance criteria, utilizing ANSI/ASQ Z1.4, Sampling Procedures and Tables for Inspection by Attributes, are required. Unless otherwise specified, single sampling plans indicated in ANSI/ASQ Z1.4 will be utilized. When required, the manufacturer shall provide the Certificate(s) of Conformance to the appropriate inspection activity. Certificate(s) of Conformance not provided shall be cause for rejection of the lot.

A. **Definitions.**

(1) **Critical defect.** A critical defect is a defect that judgment and experience indicate would result in hazardous or unsafe conditions for individuals using, maintaining, or depending on the item; or a defect that judgment and experience indicate is likely to prevent the performance of the major end item, i.e., the consumption of the ration.
(2) **Major defect.** A major defect is a defect, other than critical, that is likely to result in failure, or to reduce materially the usability of the unit of product for its intended purpose.

(3) **Minor defect.** A minor defect is a defect that is not likely to reduce materially 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.

**B. Classification of inspections.** The inspection requirements specified herein are classified as follows:

(1) **Product standard inspection.** The first article or product demonstration model shall be inspected in accordance with the provisions of this document and evaluated for appearance, odor, flavor, and texture. Any failure to conform to the performance requirements or any appearance or palatability failure shall be cause for rejection of the lot.

(2) **Periodic review evaluation.** The approved first article or product demonstration model shall be used as the product standard for periodic review evaluations. All food components that are inspected by the USDA shall be subject to periodic review sampling and evaluation. The USDA shall select sample units during production of contracts and submit them to the following address for evaluation:

US Army Research, Development and Engineering Command  
Natick Soldier Research, Development and Engineering Center  
RDNS-SEC-F  
15 Kansas Street  
Natick, MA 01760-5056

One lot shall be randomly selected during each calendar month of production or as otherwise specified in the contract. Three (3) sample units shall be randomly selected from that one production lot. The three (3) sample units shall be shipped to Natick within five (5) working days from the end of the production month from which they are randomly selected and upon completion of all USDA inspection requirements. The sample units will be evaluated for overall quality against the current first article or product demonstration model.

(3) **Conformance inspection.** Conformance inspection shall include the examinations/tests and methods of inspection cited in this section.
E-5 QUALITY ASSURANCE PROVISIONS (PRODUCT)

A. Product examination. The finished product shall be examined for compliance with the performance requirements specified in A-A-20336B and Section C of this Packaging Requirements and Quality Assurance Provisions document utilizing the double sampling plans indicated in ANSI/ASQ Z1.4. The lot size shall be expressed in pouches. The sample unit shall be one filled and sealed pouch. The inspection level shall be S-3 and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 1.5 for major defects and 4.0 for minor defects. Defects and defect classifications are listed in table I.

<table>
<thead>
<tr>
<th>Category</th>
<th>Defect</th>
<th>Dehydrated product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major</td>
<td>Minor</td>
<td></td>
</tr>
<tr>
<td>General</td>
<td></td>
<td></td>
</tr>
<tr>
<td>101</td>
<td></td>
<td>Product not type or not style or not flavor as specified.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Appearance</td>
</tr>
<tr>
<td>201</td>
<td></td>
<td>Product not a fine grained, well-blended homogenous mixture.</td>
</tr>
<tr>
<td>202</td>
<td></td>
<td>French vanilla not an off-white and dark brown color combination.</td>
</tr>
<tr>
<td>203</td>
<td></td>
<td>Mocha or Irish cream not a pale tan and dark brown color combination.</td>
</tr>
<tr>
<td>Odor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>102</td>
<td></td>
<td>Odor not characteristic of type or style or flavor specified.</td>
</tr>
<tr>
<td>Texture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>204</td>
<td></td>
<td>Cappuccino not free flowing or not free of lumps. 4/.</td>
</tr>
<tr>
<td>Weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>205</td>
<td></td>
<td>Net weight of individual pouch less than 28.0 grams.</td>
</tr>
</tbody>
</table>
### TABLE I. Product defects - Continued

<table>
<thead>
<tr>
<th>Category</th>
<th>Defect</th>
<th>Major</th>
<th>Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hydrated product 5/</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>103</td>
<td>Product not smooth or not free of discernible lumps or sedimentation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>206</td>
<td>Product does not have a medium cream brown color.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>207</td>
<td>Product does not exhibit a layer of milky white froth on top.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Odor and flavor</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>104</td>
<td>Product does not have a strong sweetened coffee with cream odor.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>105</td>
<td>Flavor not characteristic for the applicable type, style, and flavor specified.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Texture</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>208</td>
<td>Product does not completely disperse in hot or cold water with constant stirring or shaking.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>209</td>
<td>Product has undissolved floating particles.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1/ The presence of any foreign materials such as, but not limited to dirt, insect parts, hair, glass, wood, or metal, or any foreign odors or flavors such as, but not limited to burnt, scorched, rancid, sour, stale, musty or moldy shall be cause for rejection of the lot. Foreign flavors not applicable to dehydrated product.

2/ Finished product not equal to or better than the approved product standard in palatability and overall appearance shall be cause for rejection of the lot. Palatability is not applicable to dehydrated product.

3/ The trans fat content shall be verified by the NLEA “Nutrition Facts” label. Product not conforming to the trans fat content as specified in Section C of this Packaging Requirements and Quality Assurance Provisions document shall be cause for rejection of the lot.
4/ Lumps that do not fall apart under light pressure shall be scored as a defect.

5/ Prior to conducting the hydrated product examination, the cappuccino shall be hydrated per label instructions. Product that does not fully dissolve within 2 minutes with constant stirring or shaking shall be cause for rejection of the lot.

B. Methods of inspection.

(1) Shelf life. The contractor shall provide a Certificate of Conformance that the product has a 36 month shelf life when stored at 80°F. Government verification may include storage for 6 months at 100°F or 36 months at 80°F. Upon completion of either storage period, the product will be subjected to a sensory evaluation panel for appearance and palatability and must receive an overall score of 5 or higher based on a 9 point quality scale to be considered acceptable.

(2) Net weight. The net weight of the filled and sealed pouches shall be determined by weighing each sample on a suitable scale tared with a representative empty pouch. Results shall be reported to the nearest 0.1 gram.

(3) Analytical. The calories shall be verified by the NLEA “Nutrition Facts” label. Product not conforming to the calorie content as specified in Section C of this Packaging Requirements and Quality Assurance Provisions document shall be cause for rejection of the lot.

(4) Microbiological testing. Microbiological testing for Salmonella shall be as specified in A-A-20336B, and this NOTE shall be applied to that testing process:

“NOTE: The following conditions apply for Salmonella and microbiological testing:

(a) For prepackaged product received from a supplier and is not further processed, the contractor will furnish a Certificate of Analysis that the product represented is Salmonella Negative and meets all microbiological requirements.

(b) For bulk product received, the contractor is responsible for providing a Certificate of Analysis stating that the bulk product is Salmonella Negative. USDA Salmonella testing is required for each end item lot and shall be the basis for lot acceptance with respect to Salmonella and other microbiological testing requirements.”
E-6 QUALITY ASSURANCE PROVISIONS (PACKAGING AND PACKING MATERIALS)

A. Packaging.

(1) **Pouch material certification.** The pouch material shall be tested for these characteristics. A Certificate of Conformance (CoC) may be accepted as evidence that the characteristics conform to the specified requirements. Compliance to 21 CFR substances in contact with hot water (less than or equal to 212°F) may be verified by CoC.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Requirement paragraph</th>
<th>Test procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness of films for laminated material</td>
<td>D-1,A(1)a</td>
<td>ASTM D2103 1/</td>
</tr>
<tr>
<td>Aluminum foil thickness</td>
<td>D-1,A(1)a</td>
<td>ASTM B479 2/</td>
</tr>
<tr>
<td>Laminated material identification and construction</td>
<td>D-1,A(1)a</td>
<td>Laboratory evaluation</td>
</tr>
<tr>
<td>Color of laminated material</td>
<td>D-1,A(1)a</td>
<td>FED-STD-595 3/</td>
</tr>
</tbody>
</table>

1/ Standard Specification for Polyethylene Film and Sheeting

2/ Standard Specification for Annealed Aluminum and Aluminum-Alloy Foil for Flexible Barrier, Food Contact, and Other Applications

3/ Colors Used in Government Procurement

(2) **Unfilled preformed pouch certification.** A CoC may be accepted as evidence that unfilled pouches conform to the requirements specified in D-1,A(1) a and b. When deemed necessary by the USDA, testing of the unfilled preformed pouches for seal strength shall be as specified in E-6,B(1) a or b.

(3) **Filled and sealed pouch examination.** The filled and sealed pouches shall be examined for the defects listed in table II. The lot size shall be expressed in pouches. The sample unit shall be one pouch. The inspection level shall be I and the AQL, expressed in terms of defects per hundred units, shall be 0.65 for major defects and 2.5 for minor defects.
### TABLE II. Filled and sealed pouch defects 1/

<table>
<thead>
<tr>
<th>Category</th>
<th>Defect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major</td>
<td>Minor</td>
</tr>
<tr>
<td>101</td>
<td>Tear or hole or open seal.</td>
</tr>
<tr>
<td>102</td>
<td>Seal width less than 1/16 inch. 2/</td>
</tr>
<tr>
<td>103</td>
<td>Presence of delamination. 3/</td>
</tr>
<tr>
<td>104</td>
<td>Unclean pouch. 4/</td>
</tr>
<tr>
<td>105</td>
<td>Pouch has foreign odor.</td>
</tr>
<tr>
<td>106</td>
<td>Any impression or design on the heat seal surfaces which conceals or impairs visual detection of seal defects. 5/</td>
</tr>
<tr>
<td>107</td>
<td>Design B fill line missing or does not measure within ± 1/4 inch of 4.0 inches from the inside edge of the bottom closure seal.</td>
</tr>
<tr>
<td>108</td>
<td>Not packaged as specified.</td>
</tr>
<tr>
<td>201</td>
<td>Label missing or incorrect or illegible.</td>
</tr>
<tr>
<td>202</td>
<td>Tear nick or notch or serrations missing or does not facilitate opening.</td>
</tr>
<tr>
<td>203</td>
<td>Seal width less than 1/8 inch but greater than or equal to 1/16 inch. 2/</td>
</tr>
<tr>
<td>204</td>
<td>Presence of delamination. 3/</td>
</tr>
<tr>
<td>205</td>
<td>Pouch does not meet design or dimensions cited in Figure 1.</td>
</tr>
<tr>
<td>206</td>
<td>Fill line on pouch not required thickness or length.</td>
</tr>
<tr>
<td>207</td>
<td>Pouch closure seal more than 1/2 inch from the open end of the pouch.</td>
</tr>
</tbody>
</table>

1/ Any evidence of rodent or insect infestation shall be cause for rejection of the lot.
2/ The effective closure seal is defined as any uncontaminated, fusion bonded, continuous path, minimum 1/16 inch wide, from side seal to side seal that produces a hermetically sealed pouch.

3/ Delamination defect classification:

   Major - Delamination of the outer ply in the pouch seal area that can be propagated to expose aluminum foil at the food product edge of the pouch after manual flexing of the delaminated area. To flex, the delaminated area shall be held between the thumb and forefinger of each hand with both thumbs and forefingers touching each other. The delaminated area shall then be rapidly flexed 10 times by rotating both hands in alternating clockwise-counterclockwise directions. Care shall be exercised when flexing delaminated areas near the tear notches to avoid tearing the pouch material. After flexing, the separated outer ply shall be grasped between thumb and forefinger and gently lifted toward the food product edge of the seal or if the separated area is too small to be held between thumb and forefinger, a number two stylus shall be inserted into the delaminated area and a gentle lifting force applied against the outer ply. If separation of the outer ply can be made to extend to the product edge of the seal with no discernible resistance to the gentle lifting, the delamination shall be classified as a major defect. Additionally, spot delamination of the outer ply in the body of the pouch that is able to be propagated beyond its initial borders is also a major defect. To determine if the laminated area is a defect, use the following procedure: Mark the outside edges of the delaminated area using a bold permanent marking pen. Open the pouch and remove the contents. Cut the pouch transversely not closer than 1/4 inch (+1/16 inch) from the delaminated area. The pouch shall be flexed in the area in question using the procedure described above. Any propagation of the delaminated area, as evidenced by the delaminated area exceeding the limits of the outlined borders, shall be classified as a major defect.

   Minor - Minor delamination of the outer ply in the pouch seal area is acceptable and shall not be classified as a minor defect unless it extends to within 1/16 inch of the food product edge of the seal. All other minor outer ply delamination in the pouch seal area or isolated spots of delamination in the body of the pouch that do not propagate when flexed as described above shall be classified as minor defects.

4/ Outer packaging shall be free from foreign matter which is unwholesome, has the potential to cause pouch damage (for example, glass, metal filings) or generally detracts from the clean appearance of the pouch. The following examples shall not be classified as defects for unclean:
a. Foreign matter which presents no health hazard or potential pouch damage and which can be readily removed by gently shaking the package or by gently brushing the pouch with a clean dry cloth.

b. Dried product which affects less than 1/8 of the total surface area of one pouch face (localized and aggregate).

5/ If doubt exists as to whether or not the sealing equipment leaves an impression or design on the closure seal surface that could conceal or impair visual detection of seal defects, samples shall be furnished to the contracting officer for a determination as to acceptability.

B. Methods of inspection.

(1) Seal testing. The pouch seals shall be tested for seal strength as required in a, b or c, as applicable.

a. Unfilled preformed pouch seal testing. The seals of the unfilled preformed pouch shall be tested for seal strength in accordance with ASTM F88/F88M, Standard Test Method for Seal Strength of Flexible Barrier Materials. The lot size shall be expressed in pouches. The sample unit shall be one pouch. The sample size shall be the number of pouches indicated by inspection level S-1. Three adjacent specimens shall be cut from each of the three sealed sides of each pouch in the sample. The average seal strength of any side shall be calculated by averaging the three specimens cut from that side. Any average seal strength of less than 6 pounds per inch of width or any test specimen with seal strength of less than 5 pounds per inch of width shall be classified as a major defect and shall be cause for rejection of the lot.

b. Pouch closure seal testing. The closure seals of the pouches shall be tested for seal strength in accordance with ASTM F88/F88M. The lot size shall be expressed in pouches. The sample unit shall be one pouch. The sample size shall be the number of pouches indicated by inspection level S-1. For the closure seal on preformed pouches, three specimens shall be cut from the closure seal of each pouch in the sample. For vertical form-fill-seal pouches, three adjacent specimens shall be cut from each side and each end of each pouch in the sample. The average seal strength of any side, end or closure shall be calculated by averaging the three specimens cut from that side, end or closure. Any average seal strength of less than 6 pounds per inch of width or any test specimen with a seal strength of less than 5 pounds per inch of width shall be classified as a major defect and shall be cause for rejection of the lot.
c. **Internal pressure test.** The internal pressure resistance shall be determined by pressurizing the pouches while they are restrained between two rigid plates. The lot size shall be expressed in pouches. The sample unit shall be one pouch. The sample size shall be the number of pouches indicated by inspection level S-1. If a three seal tester (one that pressurizes the pouch through an open end) is used, the closure seal shall be cut off for testing the side and top of the pouch. When testing the closure seal, the top and interlocking closure shall be cut off. The pouches shall be emptied prior to testing. If a four-seal tester (designed to pressurize filled pouches by use of a hypodermic needle through the pouch wall) is used, all four seals can be tested simultaneously. The distance between rigid restraining plates on the four-seal tester shall be equal to the thickness of the product +1/16 inch. Pressure shall be applied at the approximate uniform rate of 1 pound per square inch gage (psig) per second until 14 psig pressure is reached. The 14 psig pressure shall be held constant for 30 seconds and then released. The pouches shall then be examined for separation or yield of the heat seals. Any rupture of the pouch or evidence of seal separation greater than 1/16 inch in the pouch manufacturer’s seal shall be considered a test failure. Any seal separation that reduces the effective closure seal width to less than 1/16 inch (see table II, footnote 2/) shall be considered a test failure. Any test failure shall be classified as a major defect and shall be cause for rejection of the lot.

(2) **Interlocking closure test.** The interlocking closure of the pouch shall be tested. The lot size is expressed in pouches. The sample unit shall be one pouch. The sample size shall be the number of pouches indicated by inspection level S-2. Open a filled and sealed interlocking closure pouch and prepare beverage in accordance with instructions using 70°F (±5°F) water. Close pouch. Invert pouch and suspend pouch for 15 seconds. Collect and measure any liquid that drips. Pouches that leaks more that 15 ml shall be a major defect and shall be cause for rejection of the lot.

C. **Packing.**

(1) **Shipping container and marking examination.** The filled and sealed shipping containers shall be examined for the defects listed in table III. The lot size shall be expressed in shipping containers. The sample unit shall be one shipping container fully packed. The inspection level shall be S-3 and the AQL, expressed in terms of defects per hundred units, shall be 4.0 for major defects and 10.0 for total defects.
### TABLE III. Shipping container and marking defects

<table>
<thead>
<tr>
<th>Category</th>
<th>Defect</th>
<th>Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Marking missing or incorrect or illegible.</td>
<td></td>
</tr>
<tr>
<td>102</td>
<td>Inadequate workmanship. 1/</td>
<td></td>
</tr>
<tr>
<td>201</td>
<td>More than 40 pounds of product.</td>
<td></td>
</tr>
</tbody>
</table>

1/ Inadequate workmanship is defined as, but not limited to, incomplete closure of container flaps, loose strapping, inadequate stapling, improper taping, or bulged or distorted container.
FIGURE 1. Design B Flat, Interlocking Closure Pouch
(Not actual size)
SECTION J REFERENCE DOCUMENTS

Unless otherwise specified, the applicable version of these documents is that which is active on the date of the solicitation or contract.

DLA Troop Support Form

Form 3556  Marking Instructions for Boxes, Sacks, and Unit Loads of Perishable and Semiperishable Subsistence

FEDERAL STANDARD

FED-STD-595  Colors Used in Government Procurement

NON-GOVERNMENTAL STANDARDS

AMERICAN SOCIETY FOR QUALITY (ASQ)

ANSI/ASQ Z1.4  Sampling Procedures and Tables for Inspection by Attributes

ASTM INTERNATIONAL  www.astm.org

B479  Standard Specification for Annealed Aluminum and Aluminum-Alloy Foil For Flexible Barrier, Food Contact, and Other Applications


D2103  Standard Specification for Polyethylene Film and Sheeting

D4727/D4727M  Standard Specification for Corrugated and Solid Fiberboard Sheet Stock (Container Grade) and Cut Shapes

D5118/D5118M  Standard Practice for Fabrication of Fiberboard Shipping Boxes

F88/F88M  Standard Test Method for Seal Strength of Flexible Barrier Materials