

QUARTERMASTER CORPS
TENTATIVE
SPECIFICATION

C.Q.D. No. 23E
Amendment-2
May 21, 1943

BEVERAGE COMPONENTS

U. S. ARMY FIELD RATION K

The following changes shall be made in Tentative Specification C.Q.D. No. 23E, dated July 24, 1942.

1. Delete Amendment-1 to C.Q.D. No 23E, dated October 12, 1942.
2. Change paragraph G-1a to read as follows:

G-1a. For Type I Soluble Coffee Product. Five (5) grams of the soluble coffee product shall be filled into a package manufactured of a laminated sheet composed of cellulose acetate film not less than 0.00088 inch thick, laminated to aluminum foil not less than .0008 inch thick, and coated on the foil side with an odorless permanently plastic heat sealing compound such as a modified Poly-Vinyl Acetate. This coating shall be heavy enough to provide a satisfactory heat seal.

The cellulose acetate film shall be solid printed or dyed a sand color in depth and shade suitable for camouflage purposes. Printed matter shall be done in a contrasting color (Preferably Dark Blue) to allow easy and legible reading.

The laminating agent used to combine the cellulose acetate to the foil shall be similar to the odorless and permanently plastic sealing compound such as modified Poly-Vinyl Acetate.

The package shall be formed by placing the product between two sheets of the laminated film and heat-sealing the two sheets together on all four sides. The cellulose acetate film shall be on the outside of the package. All heat seals shall be at least 3/16 of an inch in width. The package shall be not greater than 3 inches long, 2-3/8 inches wide and 3/16 inches thick.

3. Change paragraph G-1c to read as follows:

G-1c. For Type III Lemon Juice Powder, Synthetic. Seven (7) grams of the lemon juice powder synthetic, shall be filled into a package as described in G-1a except that the printing over the camouflage color shall be in yellow.



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Paragraph G-1a. For Type I. Soluble Coffee Product shall be changed to read as follows:

G-1a. For Type I. Soluble Coffee Product. Five (5) grams of the soluble coffee product shall be filled into a package manufactured of a laminated sheet of 0.00088-inch cellulose acetate film laminated to 0.001-inch thick aluminum foil, coated on the foil side with an odorless Modified Poly-Vinyl Acetate. This coating shall be heavy enough to provide a satisfactory heat-seal. The cellulose acetate film shall be printed with the necessary labeling material. The laminating agent used to laminate the cellulose acetate to the foil shall be similar to the Modified Poly-Vinyl Acetate.

The package shall be formed by placing the product between two sheets of the laminated film and heat-sealing the two sheets together on all four sides. The cellulose acetate film shall be on the outside of the package. All heat seals shall be at least $3/16$ of an inch in width. The package shall be not greater than 3 inches long, $2-1/4$ inches wide and $3/16$ inches thick.

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A. APPLICABLE SPECIFICATION.

A-1. The following specification shall form a part of this specification:

Quartermaster Corps Tentative Specification, C.Q.D. No. 43,
as amended, Lemon Juice Powder, Synthetic.

B. TYPES AND GRADES.

B-1. Beverage components shall be of three types as follows:

Type I. Soluble Coffee Product
Type II. Bouillon Powder
Type III. Lemon Juice Powder, Synthetic

B-2. Beverage components shall be of the grades indicated herein.

C. MATERIAL AND WORKMANSHIP.

C-1. All material or ingredients used shall have been prepared, manufactured or produced in a strictly sanitary manner, and in accordance with best commercial practice.

D. GENERAL REQUIREMENTS.

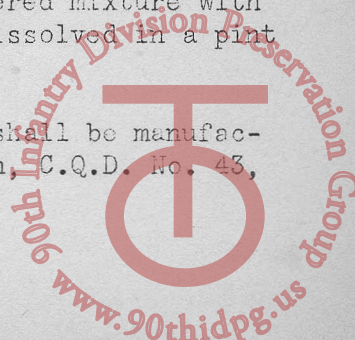
D-1. All deliveries shall conform, in every respect, to the provisions of the Federal Food, Drug, and Cosmetic Act, and regulations promulgated thereunder.

E. DETAIL REQUIREMENTS.

E-1. Type I, Soluble Coffee Product. Shall be the dry, powdered water soluble solids of roasted and ground coffee with or without added carbohydrates. Carbohydrates may be employed only for the purpose of sealing the flavor and aroma in the product, which shall be prepared in such a manner that there will be no material change in the flavor, aroma, or stimulating properties of the resulting beverage.

E-2. Type II, Bouillon Powder. The product shall be a powdered mixture with characteristic bouillon flavor when 10 grams of the product is dissolved in a pint of water. It shall be readily soluble in cold water.

E-3. Type III, Lemon Juice Powder, Synthetic. The product shall be manufactured to conform with Quartermaster Corps Tentative Specification, C.Q.D. No. 43, as amended, Lemon Juice Powder, Synthetic. (See paragraph A-1.)



F. METHODS OF SAMPLING, INSPECTION AND TEST.

F-1. Unless otherwise specified in the invitation for bids, inspection for compliance with this specification shall be made at point of origin during the process of manufacture and packing.

F-2. Chemical analyses, if required by the purchaser in the examination or testing of samples and deliveries under this specification, shall be made in accordance with methods of the Association of Official Agricultural Chemists in effect on date of invitation for bids and by approved methods in general use in the trade.

F-3. Awards will be made only after samples of the product and package have been approved by the Subsistence Research Laboratory of the Chicago Quartermaster Depot.

G. PACKAGING, LABELING, PACKING, AND MARKING FOR SHIPMENT.

G-1. Packaging. Unless otherwise specified, the packaging requirements shall be as follows:

G-1a. For Type I, Soluble Coffee Product. Five (5) grams of the soluble coffee product shall be packaged in an approved package, the size of which shall be no greater than 3 inches long, $2\frac{1}{4}$ inches wide and $\frac{3}{16}$ inch thick.

G-1b. For Type II, Bouillon Powder. Ten (10) grams of the bouillon powder shall be packaged in an approved container, the size of which shall be no greater than 3 inches long, $2\frac{1}{4}$ inches wide and $\frac{3}{16}$ inch thick.

G-1c. For Type III, Lemon Juice Powder, Synthetic. Seven (7) grams of the lemon juice powder, synthetic, shall be packaged in an approved sealed envelope or bag, the size of which shall be no greater than 3 inches long, $2\frac{1}{4}$ inches wide and $\frac{3}{16}$ inch thick.

G-2. Labeling. In addition to meeting the requirements of the Federal Food, Drug and Cosmetic Act, each package label shall furnish necessary instructions as to preparation.

G-3. Packing. Unless otherwise specified, the packages shall be packed 1,000 units per standard commercial container, which containers are so constructed as to insure acceptance by common or other carriers, for safe transportation, at the lowest rate, to the point of delivery.

G-4. Marking. All cartons shall be stenciled or printed on one end as follows:

Number of Units - Name of Product
Date (Month and Year)
Contract No.
Name and address of manufacturer.

