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PROPOSED
(TO SUPERSEDE)
Fed. Spec. U-T-30C
September 24, 1975

PROPOSED FEDERAL SPECIFICATION

TALCUM POWDER

This proposed Federal Specification draft, dated February 28, 1978, prepared by the General Services Administration, Federal Supply Service, Washington, DC 20406, has not been approved for promulgation and is subject to modification. DO NOT USE FOR PROCUREMENT PURPOSES.

1. SCOPE

1.1 Scope. This specification covers one type of talcum powder (see 6.1).

2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issues in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

Federal Specification:

PPP-B-636 - Boxes, Shipping Fiberboard.

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

(Single copies of this specification and other Federal Specifications required by activities outside the Federal Government for bidding purposes are available without charge from Business Service Centers at the General Services Administration Regional Offices in Boston, New York, Philadelphia, Washington, DC, Atlanta, Chicago, Kansas City, MO, Fort Worth, Houston, Denver, San Francisco, Los Angeles, and Seattle, WA.

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies.)

Military Standard:

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.

(Copies of Military Specifications and Standards required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

Laws and Regulations:

21 CFR 1 - Regulations for the Enforcement of the Federal Food, Drug and Cosmetic Act.

FSC 8510

PLAINTIFF'S
EXHIBIT
WCD-183

WCD 001679

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(The Code of Federal Regulations (CFR) and the Federal Register (FR) are for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. When indicated, reprints of certain regulations may be obtained from the Federal agency responsible for issuance thereof.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless a specific issue is identified, the issue in effect on date of invitation for bids or request for proposal shall apply.

Cosmetic, Toiletry and Fragrance Association:

Specification for Cosmetic Talc (10-7-76).

Test Method J4-1 - Asbestiform Amphibole Minerals in Cosmetic Talc.

(Application for copies should be addressed to: The Cosmetic, Toiletry and Fragrance Association, Inc., 1133 15th Street, NW, Washington, DC 20005.)

National Motor Freight Traffic Association, Inc., Agent:

National Motor Freight Classification.

(Application for copies should be addressed to the American Trucking Associations, Inc., Traffic Department, 1616 P Street, N.W., Washington, DC 20036.)

Uniform Classification Committee, Agent:

Uniform Freight Classification.

(Application for copies should be addressed to the Uniform Classification Committee, Room 1106, 222 South Riverside Plaza, Chicago, IL 60606.)

3. REQUIREMENTS

3.1 Finished product. Talcum powder shall consist of clean, odorless or mildly perfumed, finely powdered cosmetic grade talc. It may contain a mild perfume and anti-bacterial agents.

3.2 Physical and chemical requirements. The talcum powder shall conform to table I.

TABLE I. Physical and chemical requirements		
Characteristic	Minimum	Maximum
pH	6.0	9.5
Loss on ignition (percent)	---	9.0
Water soluble substances (percent)	---	1.0
Weight percent retained on:		
NO. 100 US Standard Sieve	---	1.0
NO. 200 US Standard Sieve	---	3.6

3.3 Excluded materials. The talcum powder shall not contain boric acid, borates or fibrous amphibole (asbestiform tremolite et al) when tested as specified in 4.3.6 and 4.3.7.

3.4 Federal Food, Drug and Cosmetic Act. The talcum powder shall conform to the Federal Food, Drug and Cosmetic Act, and regulations published under the Act.

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4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government.

4.2 Quality conformance inspection.

4.2.1 Examination of preparation for delivery. Packaging, packing, unitization (when furnished) and marking shall be examined to determine compliance with the requirements of section 5. Sampling and acceptance shall be in accordance with MIL-STD-105, inspection level S-2, acceptable quality level (AQL) of 4.0 percent defective. The sample unit shall be one shipping container fully prepared for delivery.

4.2.2 Examination of the talcum powder. The talcum powder shall be examined for net weight per container and compliance with 3.1. Sampling and acceptance shall be in accordance with MIL-STD-105, inspection level S-1, AQL of 4.0 percent defective. The sample unit shall be one container.

4.2.3 Testing of the talcum powder. The talcum powder shall be tested in accordance with the test methods in 4.3 for the requirements of section 3. Failure of the talcum powder to pass any of the tests shall be cause for rejection of the lot. In case of failure, report numerical point of failure or description of failure, as applicable.

4.3 Test methods.

4.3.1 Talc identification. Test the sample as specified in the identification test for talc in the CTFA Specification for Cosmetic Talc.

4.3.2 Loss on ignition. Weigh 1.9-2.1 g of the sample to the nearest mg in a tared platinum crucible provided with a cover. Heat gradually, then ignite at red heat to constant weight. Calculate the percent of the original weight lost on heating. Make two determinations.

4.3.3 Water soluble substances. Weigh 10-11 g of the sample to the nearest mg into a 100 ml flask. Add 50 ml of distilled water and boil for 30 minutes, adding distilled water from time to time to maintain approximately the original volume. Filter through quantitative filter paper. Evaporate the filtrate to dryness in a tared beaker and dry at 105° C for 1 hour. Using the weight of the residue, calculate the weight percent of water soluble substances in the original sample.

4.3.4 pH. Place 10 g of the talcum powder in a beaker and add 50 ml of freshly boiled and cooled distilled water. Stir for 5 minutes. Measure the pH with a pH meter and appropriate electrodes that have been standardized at pH 7 and pH 10 with standard buffer solutions.

4.3.5 Fineness. Dry a No. 100 and a No. 200 US Standard sieve in an oven at 105° to 110°C. Cool the sieves and weigh. Weigh 30 ± 1 g of talcum powder to the nearest mg, moisten with alcohol and then add 100 ml of water. Wash this mixture through the No. 100 sieve onto and through the No. 200 sieve using a gentle stream of water and stirring gently with a camel's hair brush until no more of the talcum powder passes through the sieve. Detach the No. 100 sieve and wash the talcum powder through the No. 200 sieve as above. Dry the sieves at 105° to 110° for 1 hour, cool, and weigh. Based on the increase in the weight of each sieve and the weight of the sample, calculate the percent of talcum powder retained on each sieve.

4.3.6 Boric acid. Test for boric acid by the following qualitative test:

4.3.6.1 Turmeric paper. If turmeric paper is not available, it may be prepared follows. Add 100 ml of 80 percent alcohol to 1.5 - 2.0 g turmeric powder in 250 ml glass Erlenmeyer. Shake 5 minutes and filter. Dip sheets of Whatman No. 2 filter paper into the clear filtrate in a flat-bottomed dish (petri dish). Hang paper to dry. After 1 hour, cut into strips and store in tightly stoppered containers protected from light.

4.3.6.2 Qualitative test. Add about 4 g of talcum powder to 100 ml distilled water in beaker. Heat with stirring to boiling and allow to cool. Add 3 ml 0.5 N HCl. Immerse strip of turmeric paper into acidified liquid, and let paper dry spontaneously. If borates or boric acid are present, paper turns characteristic red. Confirm presence of borates by adding a drop of ammonium hydroxide to paper which should turn dark bluish green. A drop of hydrochloric acid will restore the red color.

4.3.7 Fibrous amphibole. Test for the presence of fibrous amphibole as specified in CTFA Test Method J4-1 - Asbestiform Amphibole Minerals in Cosmetic Talc.

5. PREPARATION FOR DELIVERY.

5.1 Packaging. Packaging shall be Level A or Commercial, as specified (see 6.2).

5.1.1 Level A.

5.1.1.1 Unit Container. The talcum powder, in average net content specified (see 6.2), shall be packaged in a metal or plastic container with a sifter top cover. The container shall be closed to prevent sifting of the product.

5.1.1.2 Intermediate container. Four, six, eight, or twelve unit containers shall be immediately packaged in a paperboard box. The box shall be closed to prevent accidental opening.

5.1.2 Commercial. The talcum powder shall be preserved and packaged in accordance with normal commercial practice. The complete package shall be designed to protect the item against damage during shipment, handling and storage.

5.2 Packing. Packing shall be Level A or Commercial, as specified (see 6.2).

5.2.1 Level A. Forty eight (48) unit containers, immediately packaged as specified in 5.1.1.2, shall be packed in a box conforming to PPP-B-636, class weather resistant. The box shall be closed, waterproofed, and banded in accordance with the appendix to PPP-B-636.

5.2.2 Commercial. The packaged talcum powder shall be packed in fiberboard boxes to insure delivery at destination, to provide for redistribution by the initial receiving activity, and shall be acceptable by common carrier under the National Motor Freight Classification or Uniform Freight Classification.

5.3 Unitization. When shipments to Government depots are full car or truckload, the shipping containers shall be unitized to facilitate handling in accordance with normal commercial practice. The unitized load shall not exceed 2,500 pounds in weight, 63 inches in height, 56 inches in length, and 45 inches in width.

5.4 Marking. Packages, shipping containers, and unitized loads (when applicable) shall be marked as specified in the contract or order (see 6.2).

6. NOTES

6.1 Intended use. The talcum powder covered by this specification is intended for general comfort use.

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6.2 Ordering data. Purchasers should select the preferred options permitted here and include the following information in procurement documents:

- (a) Title, number, and date of this specification.
- (b) Packaging and packing required (see 5.1 and 5.2).
- (c) Marking required (see 5.4).

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