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Superseding

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COMMERCIAL ITEM DESCRIPTION

SLEEPING BAG, ARCTIC SURVIVAL,

CONTAINERIZED, PRESSURE/VACUUM PACKED

The General Service Administration has authorized the use of this commercial item description.

Scope. This commercial item description covers a containerized pressure/vacuum packed arctic survival sleeping bag.

Applicable documents. The following standard of the issue listed in the issue of the Department of Defense Index of Specification and Standard (DoDISS) specified in the solicitation, forms a part of this commercial item description to the extent specified herein.

STANDARDS

- MILITARY - MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.
MIL-STD-129 - Marking for Shipment and Storage.
- FEDERAL - FED-STD-595 - Color

SPECIFICATIONS

- DDD-L-20 - Label for Clothing, Equipage and Tentage, (General Use).

(Copies of specifications and standards required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the Contracting Officer).

Other publications. The following publications are referenced in the commercial item description.

ASHRAE Transactions, The Influence of Clothing and Temperature on Secondary Comfort, 1973, 79II, pages 71-80, Rohles, F. H., Woods, T. E., and Nevins, R. G.

ASTM STP 718, Quantifying the Thermal Protection and Comfort Characteristics of Sleeping Bags, 1980, pages 225-236, Rohles, R. H. Jr., and Munson, D. M.

Textile Research Journal Vol 32, Moisture Transfer in Textile Systems, 1962, pages 628-723, Woodcock, A. H.

Progress in Biometeorology, Effect of Clothing on Bodily Resistance Against Meteorological Stimuli, Vol. J., Part II, Sect. 19, (1963-1975), pages 194-208, Breckenridge, J. R., and Goldman, R. F.

Feather and Down Association Inc., An Apparatus for testing the Filling Power of Feathers and Down Under Controlled Atmospheric Conditions, (Sep 1981), pages 8-81, Werthaiser, M.

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Federal Trade Commission, FTC L5068 Guides for the Feather and Down Products Industry (Oct 1971), Tobin, C. A.

Melliand Textilberichte (English Edition), Thermophysiological Properties of Clothing Systems, (Dec 1976), pages 73-80, 1029-1032, Mecheels, J., Umbach, K. H.

Transactions of the New York Academy of Sciences, Clothing Design for Comfort and Work Performance in Extreme Thermal Environments, Series II, Volume 36, No. 6, pages 531-544, (Jun 1974), Goldman, Ralph F.

Order of precedence. In the event of a conflict between the text of this commercial item description and the references cited herein, the text of this commercial item description shall take precedence.

Salient characteristics.

1. Description. The arctic survival sleeping bag shall be mummy shaped, have an integral and adjustable hood, be zipper opened from the inside or outside and shall have minimum dimensions of 86 inches long and 33 inches wide at longest and widest points. The sleeping bag shall be pressure/vacuum packed into active containment (container that assures sleeping bag containment within prescribed envelope even if vacuum is lost) or into passive containment. The container will include necessary instructions for opening, fluffing, and general use/care of sleeping bag and also have some type of protective cover made of durable cloth or plastic. The label shall be white pressure sensitive vinyl label with black printing attached to the outside of the container. The bottom of the label shall contain identification markings conforming to Type VI, Class 5 of DDD-L-20.

2. Materials. The sleeping bag outer shell material shall be 3/4 ounce nylon rip-stop GORE-TEX laminated with polymeric film. Inner shell shall be 1.1 ounce rip-stop nylon material and have a soft and luxurious texture. The baffling material is to be at extremely light-weight nylon netting. A half length (minimum 30 inches long) continuous free running coil type slide fastener with double reversible metal sliders will be used. The filling material shall be prime goose down with 80 percent or better down density cluster count and have a filling power rating of 600 or greater per Feather and Down Association, Inc., and Federal Trade Commission Guidelines. The sleeping bag hood shall have a triple action drawstring that can adjust either across the neckline or around the circumference of the hood, or both and have a drawstring locking device with a quick release. The sleeping bag container shall be either an active container or a passive container. If the active container is used it shall have some type of lever and lanyard that will provide a positive opening when pulled. The container may be constructed using rivets, screws, and hinges as necessary. If the passive container is used it shall consist of vacuum packaging inside two envelopes of RF heat sealable material consisting of an inner envelope of VACUGARD 112A and an outer envelope of POLY-NEX 224 with easy opening pull tab on each layer.

3. Dimensions and weight.

a. Dimensions. The overall envelope dimensions for the pressure/vacuum packed sleeping bag and its container, less its protective cover, shall be 11 X 11 X 1 3/4 inches maximum.

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b. Weight. The total weight for the pressure/vacuum packed sleeping bag and its container shall be 8 pounds avoirdupois weight or less.

4. Quality assurance provisions.

4.1 Responsibility for inspection. Unless otherwise specified, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the commercial item description where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.1.1 Bid sample inspection. Each bidder shall submit a bid sample of one complete vacuum packed sleeping bag for Government inspection. Government inspection will consist of examination for defects cited in 4.2.1.1 and 4.2.1.2. Any visual or dimensional defects or the failure of any test shall be cause for rejection of the bid sample and the bidder shall be considered as non-responsive. The production item shall be manufactured using the same materials and the same fabrication procedure as used in fabricating the bid sample.

4.1.2 Acceptance of the bid sample does not constitute acceptance of the production quantity. The Government reserves the right to check test such items to determine compliance with the requirements of this commercial item description.

4.2 Quality conformance inspection. Except as otherwise specified herein, sampling for inspection shall be performed in accordance with the provisions set forth in MIL-STD-105.

4.2.1 Component and material inspection. In accordance with 4.1. components and materials shall be inspected and tested in accordance with all the requirements of referenced specifications, publications and standards unless otherwise excluded, amended, modified or qualified in this commercial item description or applicable purchase documents.

4.2.1.1 Intermediate inspection. Prior to vacuum packing the sleeping bag, it shall be inspected in accordance with the table below. The sample unit shall be one sleeping bag, the inspection level shall be S-4 and the acceptable quality level shall be 2.5 expressed in defects per one hundred units.

<u>Examine</u>	<u>Defect</u>
Design	Sleeping bag not mummy style with integral hood.
Slide Fastener	Less than 30 inches long. Does not have double reversible metal sliders. Not free running.
Color	Not color specified.

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ExamineDefect

Dimensions

Less than 86 inches long. Less than 33 inches widest point.

Construction and workmanship

Drawstring or drawstring locking device missing. Drawstring locking device not quick release type. Any hole or tear in the sleeping bag fabric. Baffling seam not finished to bags interior. Any open seam which will allow down to escape. Any open seam more than 1/4 inch which will not allow down to escape. Any spot or stain.

4.2.1.2 Examination of the end item. The end item shall be examined for the defects listed below. The sample unit shall be one complete vacuum packed sleeping bag. The inspection level shall be S-4 and the acceptance quality level shall be 2.5 expressed in defects per hundred units.

Examine

Dimensions

Length, width or depth exceeds maximum specified. Weight not as specified.

Instructions

Instructions on container missing, incorrect, incomplete, or illegible.

Construction and Workmanship

Easy opening pull tab missing from either layer of the plastic film container. Lanyard or lever missing from the aluminum container. If passive containment is used, sleeping bag not packed inside two layers of material. Any visual indications of loss of vacuum, such as looseness of the packing materials.

Protective cover omitted.

Color

Not color specified.

5. Performance requirements. The sleeping bag performance characteristics shall be as follows:

a. While wearing aircrew member type mittens, user must be able to easily remove sleeping bag from container, then open, fluff, and enter sleeping bag. Container opening forces should not exceed 20 pounds.

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b. The sleeping bag will have a moisture permeability index (im) value of 0.40 or greater as determined in Milliland Textilberichte (English Editor), Textile Research Journal, Vol 32, and Transactions of the New York Academy of Sciences.

c. The sleeping bag will provide overall cold weather protection and comfort using the latest clothing design technology and testing/measuring criteria related thereto and described in Progress in Biometerology, Effect of Clothing on Bodily Resistance Against Meteorological Stimuli, Vol J.

6. Instructions. The sleeping bag container shall be marked with instructions and illustrations for opening, fluffing, and general use/care of sleeping bag. Such instructions and illustrations shall be on the outside of the container and be clear and legible.

7. Color. The sleeping bag shall be colored as follows per FED-STD-595.

- a. Outer shell, Sage Green #34158.
- b. Inner shell, Sage Green Color #34158.
- c. Container, Grey Color #16473.
- d. Container Protective Cover, Sage Green Color #34158.

(Requirements for Individual Color Chips (3 X 5 Supplements) shall be submitted to the Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120, citing FED-STD-595 together with the appropriate Chip Number as shown therein).

Certification. The contractor shall certify that the product offered meets the salient characteristics of this description and that the product conforms to the producers own drawings, specifications, standards, and quality assurance practices. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

a. The Feather and Down Association shall certify that the filling material from each down lot procured by the contractor is prime goose down with 80 percent or better density cluster count and have a filling power rating of 600 or greater.

b. The contractor shall certify that the down is in compliance with Federal Trade Commission Guidelines.

c. That the sleeping bag has a measured Clothing Insulation (CLO) value of 6.25 or greater, twenty-four hours after opening as determined by ASHRAE Transportation and ASTM STP 718.

Packaging and marking for shipment. The sleeping bag shall be packaged in accordance with normal commercial practice and packed to assure acceptance by common carrier and provide protection against loss and damage during multiple shipments, handling, and storage. The shipping container shall be in compliance with National Motor Freight Classification and Uniform Freight Classification. Marking shall comply with MIL-STD-129.

Intended use. The intended use for the sleeping bag is to provide thermal protection for an aircrew member under arctic survival conditions and will be contained within the survival kit of aircrew member's ejection seat.

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Ordering data. Procurement documents should specify the following:

- a. Title, number, and date of this commercial item description.
- b. Overall dimensions.
- c. Marking for shipment.

Known acceptable products.

<u>Manufacturer</u>	<u>Model/Part Number</u>	<u>NSN</u>
Stencel Aero Engineering Corp. Talley Industries P.O. Box 1107 Arden, NC 28704	SZ-1	NA
H. Kach & Sons Division Gulf & Western Manufacturing Co. 5410 E. La Plama Avenue Anaheim, CA 92807	027-820121-1	NA
The Frank Tehan Corporation 1801 East Shore Hwy. Berkely, CA 94710	1036SB/3011AC	NA

Custodian:
Air Force - 99

Preparing activity:
Air Force - 82

Review activity:
DLA-CT

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User activity:
Air Force - 45