

KK-C-300C  
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SUPERSEDING  
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## FEDERAL SPECIFICATION

### CHAMOIS LEATHER, SHEEPSKIN, OIL TANNED

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

#### 1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers the requirements for chamois leather made from oil-tanned sheepskin fleshers.

#### 1.2 Classification.

1.2.1 Grades, classes, and sizes. Chamois leather shall be of the following grades, classes, and sizes, as specified (6.2).

Grade A - For straining water and other impurities from gasoline.  
Grade B - General purpose (washing and polishing).

Class 1 - Pocket-shaped.

Size 12 X 14 inches.  
Size 16 X 21 inches.  
Size 20 X 26 inches.  
Size 23 X 26 inches.

Class 2 - Natural skin-shaped, edges trimmed.

Size S - Small.  
Size M - Medium.  
Size L - Large.

#### 2. APPLICABLE DOCUMENTS

2.1 Specifications and standards. The following specifications and standards of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein:

##### Federal Specifications:

UU-P-268 - Paper, Kraft, Untreated, Wrapping.  
PPP-B-636 - Box, Fiberboard.  
PPP-F-320 - Fiberboard; Corrugated and Solid, Sheet Stock  
(Container Grade), and Cut Shapes.  
PPP-T-45 - Tape, Gummed, Paper, Reinforced and Plain, for  
Sealing and Securing.

##### Federal Standards:

Fed. Std. No. 311 - Leather, Methods of Sampling and Testing.  
Fed. Std. No. 123 - Marking for Domestic Shipment (Civilian Agencies).

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(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, 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, D.C. 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 the Business Service Centers at the General Services Administration Regional Offices in Boston, New York, Washington, D.C., Atlanta, Chicago, Kansas City, Mo., Fort Worth, Denver, San Francisco, Los Angeles, and Seattle, Washington.)

(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 Standards:

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.  
MIL-STD-129 - Marking for Shipment and Storage.

(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.)

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

National Classification Board:

National Motor Freight Classification Rule.

(Application for copies should be addressed to the National Classification Board, 1616 P Street, N.W., Washington, D.C. 20036.)

Uniform Classification Committee:

Uniform Freight Classification Rule.

(Application for copies should be addressed to the Uniform Classification Committee, 202 Union Station, Chicago, Illinois 60606.)

### 3. REQUIREMENTS

3.1 Material. The chamois leather shall be made from the flesh splits of sheepskins split before tanning.

3.2 Tannage. The flesh splits shall be oil tanned so as to produce a soft absorbent chamois leather.

#### 3.3 Physical requirements.

##### 3.3.1 Trim (form and area).

3.3.1.1 Class 1. The class 1 chamois shall be rectangular except the corners of the upper end shall be rounded to form a pocket shape. The area of the chamois shall be as specified below for the sizes indicated.

<u>Size, inches 1/</u>	<u>Area, square inches, minimum</u>
12 X 14	145
16 X 21	290
20 X 26	460
23 X 26	520

1/ A tolerance of  $-1/2$ , + 2 inches shall be permitted in the width and length dimensions.

3.3.1.2 Class 2. The class 2 chamois shall be in the form of whole skins which have been trimmed to remove all ragged and unserviceable edges. The area of the chamois shall be as specified below for the sizes indicated.

<u>Size</u>	<u>Area, square inches, minimum</u>
Small	450
Medium	575
Large	675

3.3.2 Finish. The chamois shall be suede finished on both sides.

3.3.3 Color. The color of the chamois shall be natural as produced by the oil tannage. The chamois shall not be chemically bleached or dyed.

3.3.4 Thickness. The chamois shall be not less than 1-1/4 ounces in thickness.

NOTE: 1 ounce = 1/64 inches.

3.3.5 Breaking force.

3.3.5.1 Grade A. The breaking force of the grade A chamois shall be not less than 40 pounds when tested as specified in 4.3.

3.3.5.2 Grade B. The breaking force of the grade B chamois shall be not less than 30 pounds when tested as specified in 4.3.

3.3.6 Water absorption.

3.3.6.1 Grade A. The grade A chamois shall gain not less than 450 percent of its conditioned weight by water absorption when tested as specified in 4.3.

3.3.6.2 Grade B. The grade B chamois shall gain not less than 375 percent of its conditioned weight by water absorption when tested as specified in 4.3.

3.3.7 Water removed by wringing.

3.3.7.1 Grade A. The amount of water expelled from the chamois by wringing shall be not less than 250 percent of the weight of the conditioned specimen when tested as specified in 4.3.

3.3.7.2 Grade B. The amount of water expelled from the chamois by wringing shall be not less than 200 percent of the weight of the conditioned specimen when tested as specified in 4.3.

3.3.8 Gasoline-water separation (grade A). The chamois shall remove water in a water-gasoline mixture when tested as specified in 4.3. The time required for the gasoline to pass through the chamois shall not exceed one minute when tested as specified in 4.3.

3.3.9 Time of wetting (grades A and B). The time of wetting of the chamois shall be no greater than 30 seconds when tested as specified in 4.3.

3.4 Chemical requirements. The chamois leather shall conform to the chemical requirements of table I when tested as specified in 4.3.

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TABLE I. Chemical requirements

Characteristic	Grade A		Grade B	
	Minimum	Maximum	Minimum	Maximum
Total ash, percent <u>1/</u>	-	8.0	-	12.0
Iron and aluminum oxides, percent <u>1/</u>	-	1.0	-	1.5
Chromic oxide, percent	-	0.3	-	0.3
Free formaldehyde, percent	-	0.05	-	0.05
pH value	6.5	-	6.5	-

1/ Calculated on the moisture free basis.

### 3.5 Marking.

3.5.1 Description. Each class 1 chamois shall be marked along the base edge (opposite rounded edge) and each class 2 chamois shall be marked along the butt edge so as to exhibit the following information:

Chamois Leather - Grade A (or B as applicable)

Contract No.

Size

Lot No.

The bottom line shall be  $1 \pm 1/2$  inches from the base or butt edge. The lettering shall be  $3/8 \pm 1/8$  inch in height and of a contrasting color to the chamois. Unless otherwise specified (see 6.2), all markings shall be located on the side of the chamois from which the grain has been removed (rough side of chamois).

3.5.2 Grade designation. In addition to the lettering described in 3.5.1 and approximately four inches above it, each grade A chamois shall be marked "FILTERING TYPE" and each grade B chamois shall be marked "NON-FILTERING TYPE". Letter size and color shall be as described in 3.5.1.

3.5.3 Tanners brand or trademark. In addition to the markings described in 3.5.1 and 3.5.2 and in a position approximately midway between them, each chamois unit shall carry the identifying name or trademark of the tanner.

3.5.4 Unless otherwise specified, in addition to the marking described in 3.5.1 and approximately six inches above it, each grade B chamois shall be legibly and permanently marked "U.S. Property". Letter size and color shall be as described in 3.5.1.

### 3.6 Put up (class 2).

3.6.1 Military requirements. Class 2 chamois units shall be supplied in multiples of 5 units, which shall consist of a minimum of 20 percent size Large and 40 percent size Medium, and a maximum of 40 percent size Small. The area of the units shall be as specified in 3.3.1.2 for the respective sizes.

3.6.2 Civilian requirements. At the option of the contracting officer, class 2 chamois units shall be supplied in multiples of 5 units, in accordance with the percentage distribution in 3.6.1, or in individual sizes as specified (see 6.2). The area of the units shall be as specified in 3.3.1.2 for the respective sizes.

3.7 Workmanship. The finished chamois shall conform to the quality and grade of product established by this specification. Occurrence of defects shall not exceed the applicable quality levels.

#### 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, 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 specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

4.1.1 Certificate of compliance. Where certificates of compliance are submitted, the Government reserves the right to check test such items to determine the validity of the certification.

4.2 Inspection. Sampling for inspection shall be performed in accordance with MIL-STD-105, except where otherwise indicated hereinafter.

4.2.1 Component and material inspection. In accordance with 4.1 above, components and materials shall be tested in accordance with all the requirements of referenced specifications, drawings and standards unless otherwise excluded, amended, modified, or qualified in this specification or applicable purchase document.

4.2.2 Examination of the end item. The classification of defects found during the examination shall be in accordance with the lists shown in 4.2.2.1 and 4.2.2.2. The sample unit for these examinations shall be one chamois. The lot size shall be expressed in units of one chamois. The inspection levels and acceptable quality levels (AQL) for these examinations shall be in accordance with 4.2.2.3.

##### 4.2.2.1 Examination for visual characteristics.

Examine	Defect	Classification	
		Major	Minor
Material	Not flesh split.	X	
Finish	Suede finish completely missing from one or both sides.	X	
Color	Not natural color, i.e., the skin is dyed or bleached.		X
Trim			
Grades A and B:			
Class 1	Not pocket-shaped, i.e., not rectangular with upper corners rounded.		X
Class 2	Not natural skin shape.		X
	Ragged or unserviceable edges.		X
Quality			
Grade A:			
Classes 1 and 2	Cockle, hard scars or hard spots with cumulative total area of more than 2 square inches per unit.	X	
	Any hole, cut or tear.	X	
	Thin spot.		X
	Cemented or sewn pieces.	X	

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Examine	Defect	Classification	
		Major	Minor
Quality (cont'd) Grade B: Classes 1 and 2	Cockle, hard scars or hard spots exceeding 4 square inches in total area.		X
	Two or more holes, cuts or tears 1/4 inch or less in longest dimension.		X
	One hole, cut or tear greater than 1/4 inch in longest dimension.	X	
	Cemented or sewn pieces.	X	
Marking	Missing, incorrect, illegible or not located as specified.		X

4.2.2.2 Examination for dimensional characteristics.

Examine	Defect
Size and area:	
Class 1	Length or width not as specified. <u>1/</u> Area of unit less than specified. <u>2/</u>
Class 2	Area of unit less than specified. <u>2/</u>
Thickness	Not as specified. <u>3/</u>

1/ The length of the unit is the longest dimension (not diagonal); the width is the widest dimension perpendicular to the length.

2/ The area shall be determined in accordance with methods 1111 or 1121 of Fed. Std. No. 311, except that the area shall be reported to the nearest square inch. When method 1121 is used the area shall be recorded to the nearest 50 square centimeters. For reporting purposes the area shall be converted to square inches by multiplying the total area recorded in square centimeters by 0.155.

3/ Thickness of class 2 and class 2 chamois shall be determined in accordance with method 1011 of Fed. Std. No. 311 except that the thickness of class 1 chamios shall be measured at 5 points equally spaced along the length dimension. No single measurement shall be less than the minimum specified.

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4.2.2.3 Inspection levels and AQLs. The inspection levels and AQLs, expressed in defects per hundred units, shall be as follows:

Examination	Inspection level	AQL
For defects applicable to 4.2.2.1, visual characteristics:		
Grade A. . . . .	II	Major * Total 2.5
Grade B. . . . .	II	Major 2.5 Total 6.5
For defects applicable to 4.2.2.2, dimensional characteristics.	S-3	4.0

\* The acceptance number for major defects under this examination is zero.

4.3 Examination of preparation for delivery requirements. An examination shall be made to determine that packaging, packing and marking requirements of section 5 of this specification are complied with. Defects shall be scored in accordance with the list below. The sample unit shall be one shipping container fully prepared for delivery with the exception that it need not be sealed. Defects of closure listed below shall be examined on shipping containers fully prepared for delivery. The lot size shall be the number of shipping containers in the end item inspection lot. The inspection level shall be S-2 and the AQL, expressed in defects per 100 units, shall be 2.5.

Examine	Defect
Marking (exterior and interior)	Omitted; incorrect; illegible; of improper size, sequence, or method of application.
Materials	Any component damaged. Any component missing.
Workmanship	Inadequate application of components such as incomplete closure of container flaps, improper taping, loose strapping, inadequate stapling. Bulged or distorted container.
Content	Number of bundles per shipping container is more or less than required. Number of chamois per bundle is more or less than required. <u>1/</u> Multiple units for class 2 chamois, when applicable, not in size percentages specified. <u>1/</u>

1/ For these defects, two bundles shall be examined from each shipping container in the sample.

4.3 End item testing. The methods of testing specified in Fed. Std. No. 311 wherever applicable and as listed in table II shall be followed. The sample unit for testing shall be two chamois. The lot size shall be expressed in units of one chamois. The test area from which specimens are to be obtained shall be located at the approximate center of each chamois. All test reports shall contain the individual values utilized in expressing the final result. The lot shall be rejected if one or more sample units fail to meet any requirement specified. The sample size shall be as follows:

Lot size	Sample size
800 or less	2
801 to 22,000	3
22,001 and over	5

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TABLE II. End item tests

Characteristic	Requirement paragraph	Test method	Requirement applicable to		
			Sample unit	Lot average	Composite
Material identification	3.1	<u>1/</u>	-	-	-
Tannage	3.2	<u>1/</u>	-	-	-
Breaking force	3.3.5	2031 <u>2/</u>	-	X	-
Water absorption	3.3.6	4.3.1 <u>3/</u>	-	X	-
Water removed by wringing	3.3.7	4.3.1 <u>3/</u>	-	X	-
Gasoline-water separation	3.3.8	4.3.2 <u>3/</u>	X	-	-
Time of filtering gasoline	3.3.8	4.3.2 <u>3/</u>	-	X	-
Time of wetting	3.3.9	4.3.3 <u>3/</u>	-	X	-
Total ash	3.4	6421	-	-	X
Iron and aluminum oxides	3.4	6531	-	-	X
Chromic oxide	3.4	6521 <u>4/</u>	-	-	X
Free formaldehyde	3.4	4.3.4 <u>3/</u>	-	-	X
pH value	3.4	6621	-	-	X

1/ Unless otherwise specified, a certificate of compliance is required and will be acceptable for the requirement stated.

2/ Two determinations shall be made on each sample unit with the test specimens cut at right angles to each other. The results shall be reported to the nearest pound.

3/ One determination shall be made on each sample unit.

4/ Exception to method 6521: The potassium dichromate solution (equivalent to 0.3 percent  $\text{Cr}_2\text{O}_3$ ) shall be prepared by dissolving 0.348 grams of  $\text{K}_2\text{Cr}_2\text{O}_7$  in 60 milliliters of a solution made up of 100 milliliters of sulfuric acid (sp. gr. 1.83) and 200 milliliters of distilled water.

4.3.1 Water absorption and water removed by wringing. A 5 by 7 inch specimen shall be cut from the test area (see 4.3) of each sample unit. The specimen shall be completely immersed in distilled water for 5 minutes. At the end of the required immersion period the specimen shall be removed from the water, wrung out by hand, stretched, hung by two adjacent corners and brought to moisture equilibrium under standard atmosphere conditions as specified in Fed. Std. No. 311. The conditioned specimen shall be weighed and the weight recorded as W1. The specimen shall be completely immersed in distilled water at  $23 \pm 1^\circ\text{C}$  for 3 minutes. At the end of the required immersion period, the specimen shall be removed from the water, hung by two adjacent corners and allowed to drain for 2 minutes. The specimen shall be immediately weighed and the weight recorded as W2. The weighed specimen shall be immediately passed through a household type wringer and re-weighed. The weight shall be recorded as W3. The wringer shall be equipped with smooth rubber squeeze rolls 2-1/8 to 2-1/2 inches in diameter and not less than 11 inches nor more than 16 inches in length. The rubber rolls shall have a shore durometer hardness of 70 to 80 (scale A). The pressure on the specimen shall be controlled uniformly by means of a dead weight attached to the top of the roller and the total load of the roller and weight shall be 30 pounds. The rolls shall be driven at such a speed that the specimen will pass through the rolls at the rate of 1 inch per second. The amount of water absorbed and the amount of water expelled by wringing shall be the average of the test results obtained for the specimens tested. The results shall be calculated to the nearest 1.0 percent using the following formulas:



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$$\text{Water absorbed, percent} = \frac{W_2 - W_1}{W_1} \times 100$$

$$\text{Water expelled by wringing, percent} = \frac{W_2 - W_3}{W_1} \times 100$$

Where:

W1 = Weight of conditioned specimen, grams.

W2 = Weight of wet specimen, grams.

W3 = Weight of specimen after wringing, grams.

NOTE: The weight of the specimen shall be determined to the nearest .01 gram.

4.3.2 Gasoline-water separation and time of filtering. Method 6811 of Fed. Std. No. 311 shall be followed except that the specimen shall be a 5 by 5 inch piece of chamois taken from each sample unit. The funnel shall have a stem length of 140 + 10 mm. The stem of the funnel shall not contact the collection beaker during the test. The time required for the gasoline to be filtered shall be reported as the average of the results obtained from the specimens tested. The end of filtration shall be recorded at the moment when the time between drops exceeds one second.

4.3.3 Time of wetting. The specimens shall be cut from the 5 by 7 inch piece used as the specimen in 4.3.1 after it has brought to moisture equilibrium under standard atmospheric conditions as specified in Fed. Std. No. 311. A 1 by 1 inch specimen shall be cut from the conditioned piece in such a manner that no edge of the specimen is nearer than 1/4 inch to any edge of the piece. A small metal hook weighing not more than 0.3 grams shall be attached to one corner of the specimen. A prewetted string with a 50 gram weight attached to one end shall be fastened to the hook, so that the distance between the corner of the specimen and the weight shall be approximately 7 inches. A suitable container of not less than 2 inches in diameter shall be filled to a depth of 12 (+1, -0) inches with distilled water at 23 + 1°C. The corner of the specimen opposite the hook shall be held and the specimen with attached weight lowered until the edge of the specimen comes in contact with the water. The specimen shall be released at the moment the edge of the specimen contacts the water. The time required for the specimen to sink to the bottom of the container shall be recorded. The time of wetting shall be the average of the results obtained for the specimens tested and shall be reported to the nearest second.

4.3.4 Free formaldehyde. The specimen shall consist of 0.5 grams of leather obtained from the composite sample prepared in accordance with method 6002 of Fed. Std. No. 311. One specimen from the composite shall be tested for free formaldehyde in accordance with the procedure indicated below. If the test results of the qualitative test are negative, the quantitative determination shall not be made.

#### 4.3.4.1 Free formaldehyde (qualitative).

4.3.4.1.1 Reagent solution (chromotropic acid). Five grams of 4, 5-dihydroxynaphthalene, 2, 5-disulfonic acid or 5.6 grams of the disodium salt (practical) dissolved in distilled water and diluted to 100 milliliters. Any insolubles shall be filtered off through filter paper and the solution stored in a glass-stoppered brown bottle.

4.3.4.1.2 Procedure. The 0.5 gram test specimen shall be added to a 25 or 50 milliliter Erlenmeyer flask containing 10 milliliters of distilled water. The flask shall be shaken to assure the specimen is thoroughly wetted. The flask shall be set aside for 30 minutes with occasional shaking. After the required time, the water extract shall be filtered into a dry container by passing the extract through a dry glass wool or cotton mat which has been placed in a small funnel. One milliliter of the filtrate shall be transferred to a test tube. One milliliter of the reagent solution and 10 milliliters of sulfuric acid (sp. gr. 1.83) shall be added to the filtrate. The contents shall be thoroughly mixed and the test tubes placed in a boiling water bath for 30 minutes to permit color development. The presence of a purple color indicates the presence of free formaldehyde. A brownish yellow color indicates that no free formaldehyde is present.

4.3.4.2 Free formaldehyde (quantitative). If the qualitative test for formaldehyde is positive, the following procedure shall be followed.

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4.3.4.2.1 Standard solution (formaldehyde). A sufficient weight of reagent-grade formaldehyde to give 1 gram of HCHO (approximately 2.7 grams of a 36-38 percent reagent-grade formaldehyde) shall be transferred to a one liter volumetric flask and the volume made up to mark with distilled water. Fifty milliliters of this solution shall be transferred to a 2,000 milliliter volumetric flask and made up to mark with distilled water. This solution contains .025 milligrams of HCHO per milliliter.

4.3.4.2.2 Procedure. Add one milliliter of the water filtrate obtained in 4.3.4.1.2 to a dry test tube. Add one milliliter of the standard solution (formaldehyde) to a dry test tube. Add one milliliter of distilled water to a dry test tube. To each test tube add one milliliter of the reagent solution obtained in 4.3.4.1.1 and 10 milliliters of sulfuric acid (sp. gr. 1.83). The contents of each test tube shall be thoroughly mixed and the test tubes placed in a boiling water bath for 30 minutes to permit color development. After the required heating period, the test tubes shall be removed from the water bath and the contents transferred to separate 50 milliliter volumetric flasks. Each test tube shall be rinsed twice with small quantities of distilled water and the wash water shall be added to the respective volumetric flask. Then the volume of each flask shall be made approximately to mark with distilled water. The flask shall be cooled to room temperature and the volume of each flask made up to mark. The content of each flask shall be thoroughly mixed. The color intensity of the unknown shall be compared with the reagent blank and the formaldehyde standard. The comparisons may be made by visual observation of the solutions in 50 milliliter Nessler tubes by placing the tubes against a white background and looking through the solutions lengthwise from the top. If available a spectrophotometer or a electrophotometer may be used for the color comparison. With a spectrophotometer, the comparison shall be made using a wave length of approximately 570 millimicrons. With an electrophotometer the comparison shall be made using an optical filter with a maximum transmission as close as possible to 570 millimicrons. The specimen shall be reported as passing if the color intensity of the unknown is equal to or less than the color intensity of the standard solution.

## 5. PREPARATION FOR DELIVERY.

5.1 Packaging. Packaging shall be level A, B, or C, as specified (see 6.2).

### 5.1.1 Level A.

#### 5.1.1.1 Military requirements.

5.1.1.1.1 Class 1 (military agencies). Ten units of chamois leather of one grade and size only, shall be bundled and completely wrapped in 30-pound minimum basis weight kraft paper conforming to grade B of UU-P-268. Each wrapped bundle shall be secured with cotton tape or twine, or sealed with 2-inch minimum width gummed paper tape conforming to type III, grade B of PPP-T-45.

5.1.1.1.2 Class 2 (military agencies). Five units of chamois leather of one grade, and in the size percentage distribution as specified in 3.6.1, shall be bundled and completely wrapped in 30-pound minimum basis weight kraft paper conforming to grade B of UU-P-268. Each wrapped bundle shall be secured with cotton tape or twine, or sealed with 2-inch minimum width gummed paper tape conforming to type III, grade B of PPP-T-45.

5.1.2 Level B (civil agencies). Packaging for class 1 and for individual sizes (see 3.6.2) for class 2 as specified (see 6.2) shall be in accordance with the standard pack requirements specified in 5.1.2.1, 5.1.2.1.1 and 5.1.2.1.2. Packaging for multiple units (see 3.6.2) for class 2 as specified (see 6.2) shall be in accordance with the requirements specified in 5.1.2.2.

5.1.2.1 Level B standard pack (civil agencies), class 1 and for individual sizes for class 2 (see 3.6.2).

5.1.2.1.1 Unit packaging. Each chamois regardless of size shall be folded to approximate dimensions of eight inches by eight inches and inserted in a protective envelope of polyethylene, glassine, cellophane, or similar material to prevent soiling.

5.1.2.1.2 Intermediate packaging. Ten individually packaged chamois of identical grade, class, and size shall be wrapped in a bundle in kraft paper of minimum 40-pound basis weight conforming to grade B of UU-P-268. Bundles shall be secured with cotton twine or paper tape. Five bundles of ten chamois (50 chamois) of identical grade, class, and size shall be packaged in a fiberboard box conforming to PPP-B-636, type, class and style optional. Each box shall be closed in accordance with the appendix of PPP-B-636.

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5.1.2.2 Class 2 (multiple units) (civil agencies (see 3.6.2)). Packaging shall be in accordance with the requirements specified in 5.1.1.1.2.

5.1.3 Level C. Chamois leather shall be packaged to afford adequate protection against physical damage during shipment from the supply source to the first receiving activity. The supplier may use his standard practice when it meets this requirement.

5.2 Packing. The packing shall be level A, B, or C, as specified (see 6.2).

5.2.1 Level A (military requirements). Two hundred units (twenty class 1 bundles or forty class 2-multiple units-bundles) of one grade and size (as applicable) only, packaged as specified in 5.1, shall be packed flat in a snug-fitting fiberboard shipping container conforming to style RSC-L, grade V2s of PPP-B-636. The inside of each container shall be fitted with a taped box liner conforming to type CF, class weather-resistant, variety DW, grade V15c of PPP-F-320. Each shipping container shall be closed, water-proofed by means of tape, and reinforced in accordance with the appendix to PPP-B-636.

5.2.2 Level B.

5.2.2.1 Military requirements. Two hundred units (twenty class 1 bundles or forty class 2 bundles) of one grade and size (as applicable) only, packaged as specified in 5.1, shall be packed flat in a snug-fitting fiberboard shipping container conforming to style RSC-L, type CF (variety SW) or SF, class domestic, grade 275 of PPP-B-636. The inside of each container shall be fitted with a taped box liner conforming to class domestic, variety DW, grade 275 of PPP-B-636. Each shipping container shall be closed in accordance with method II as specified in the appendix of PPP-B-636.

5.2.2.1.1 When specified (see 6.2), the shipping container shall be a grade V3c or V3s fiberboard box fabricated in accordance with PPP-B-636 and closed in accordance with the appendix of the container specification. The shipping container material may also be grade V4s of PPP-F-320.

5.2.2.2 Civil agencies. Packing for class 1 and for individual sizes for class 2 shall be in accordance with the standard pack requirements specified in 5.2.2.2.1. Packing for multiple units for class 2 shall be in accordance with the requirements specified in 5.2.2.2.2.

5.2.2.2.1 Level B, standard pack (civil agencies), class 1 and for individual sizes for class 2. Quantities ordered for one destination permitting, four intermediate boxes (200 chamois) of the same grade, class, and size or four intermediate boxes (200 chamois) of different grades, classes, and sizes shall be packed in a shipping container conforming to style RSC, type CF (variety SW) or SF, class domestic, grade 200 of PPP-B-636. Each container shall be closed in accordance with the appendix of PPP-B-636. Where container pack consists of assorted grades, classes, and sizes, exterior marking shall so indicate.

5.2.2.2.2 Class 2 (multiple units) (civil agencies). Packing shall be in accordance with the requirements specified in 5.2.2.1.

5.2.3 Level C. Chamois leather packaged as specified in 5.1, shall be packed in a manner to insure carrier acceptance and safe delivery at destination at the lowest transportation rate for such supplies. Containers shall be in accordance with Uniform Classification Rules or National Freight Classification Rules, as applicable.

5.3 Marking.

5.3.1 Military requirements. In addition to any special marking required by the contract or order, interior packages and shipping containers shall be marked in accordance with MIL-STD-129.

5.3.2 Civil requirements. In addition to any special marking required by the contract or order, interior packages and shipping containers shall be marked in accordance with Fed. Std. No. 123.

KK-3-300C

## 6. NOTES

6.1 Intended use. Grade A chamois leather is intended for use in straining gasoline and other petroleum fuels. Grade B chamois is intended for use in washing and polishing. Either grade is suitable for use in orthopedic and prosthetic appliances and where chamois is in contact with the skin; and for garment making and similar uses.

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

- (a) Title, number, and date of this specification.
- (b) Grade and class required (see 1.2.1).
- (c) Size required for class 1 (applicable to military and civil agencies) (see 1.2.1).
- (d) Location of marking, when marking is not required to be located on grain, side (see 3.5.1).
- (e) Size required for class 2, if applicable, or whether multiples of 5 units for class 2 are required (applicable to civil agencies only) (see 1.2.1, 3.6.2, and 6.3).
- (f) Selection of applicable levels of packaging and packing (see 5.1 and 5.2).
- (g) When weather-resistant grade fiberboard shipping containers are required for level B packing (see 5.2.2.1.1).

6.3 Civil agencies. Contracting officers should order in multiples of 5 units in lieu of individual sizes for class 2 chamois leather where possible, since this is the most economical method. Sheepskin vary in size and the acceptance of the percentage distribution for multiple units by the Government enables the supplier to furnish chamois units in sizes which are more readily available with the minimum of cutting. Ordering of individual sizes for class 2 is more expensive as it generally requires cutting of larger skins to meet the quantity requirements for the sizes involved.

6.4 Grade A, class 1, size 23 by 26 inches chamois leather is standard for Department of Defense requirement for the straining of gasoline. Grade B, class 2 unit pack of two, two and one is standard for Department of Defense requirements for general purpose (washing and polishing).

6.5 The standard pack requirements for class 1 and individual sizes (not multiple units) for class 2 in 5.1.2.1 and 5.2.2.2.1, are intended for use in procurements of stores stock replenishments. Procuring officers should use the standard pack requirements when it is known that the material will be shipped from a supplier to a domestic warehouse, supply depot, or intermediate storage point for temporary storage, subsequent issue, and/or shipment to eventual user.

MILITARY CUSTODIANS:

Army - GL  
Navy - SA  
Air Force - 11

Review activities

Army - MD  
Navy - SA  
Air Force - 82, 85

User activities:

Army - AV  
Navy - MC

Preparing activity:

Army - GL

CIVIL AGENCIES INTEREST:

AGR  
COM-NBS  
DC  
GSA-FSS  
INT  
JUS-FPI  
PO  
TR  
VA-DMS

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Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See section 2 of this specification to obtain extra copies and other documents referenced herein. Price 15 cents each.

SPECIFICATION ANALYSIS SHEET		Form Approved Budget Bureau No. 22-R255
<b>INSTRUCTIONS:</b> This sheet is to be filled out by personnel, either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or serve to amend contractual requirements.		
<b>SPECIFICATION</b> Chamois Leather, Sheepskin, Oil Tanned KK-C-300C		
<b>ORGANIZATION</b>		
<b>CITY AND STATE</b>	<b>CONTRACT NUMBER</b>	
<b>MATERIAL PROCURED UNDER A</b> <input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT		
<b>1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?</b> <b>A. GIVE PARAGRAPH NUMBER AND WORDING.</b>		
<b>B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES</b>		
<b>2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID</b>		
<b>3. IS THE SPECIFICATION RESTRICTIVE?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO (If "yes", in what way?)		
<b>4. REMARKS</b> (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)		
<b>SUBMITTED BY</b> (Printed or typed name and activity - Optional)		<b>DATE</b>

DD FORM 1426  
1 JAN 66

REPLACES EDITION OF 1 OCT 64 WHICH MAY BE USED.

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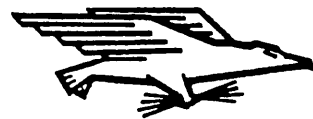
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