

MIL-C-8021D  
~~11 August 1971~~  
 SUPERSEDING  
 MIL-C-8021C  
 10 November 1965

## CLOTH, PARACHUTE, NYLON, CARGO AND DECELERATION

This specification is mandatory for use by all Departments and Agencies of the Department of Defense.

### 1. SCOPE

1.1 Scope. This specification covers types of nylon for fabrication of parachutes.

1.2 Classification: The nylon cloth shall be of the following types and classes as specified (see 6.2):

- |          |   |  |
|----------|---|--|
| Type I   | - | 4.75 ounces per square yard, maximum weight          |
| Type II  | - | 7.00 ounces per square yard, maximum weight          |
| Type IIA | - | 10.50 ounces per square yard, maximum weight         |
| Type III | - | 14.00 ounces per square yard, maximum weight         |
|          |   |  |
| Class 1  | - | Air permeability tested at 1/2 inch water pressure.  |
| Class 2  | - | Air permeability tested at 20 inches water pressure. |

### 2. APPLICABLE DOCUMENTS

- \* 2.1 The following documents 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.

#### SPECIFICATIONS

##### Federal

PPP-P-1133	Packaging And Packing Of Synthetic Fiber Fabrics
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#### STANDARDS

##### Federal

FED-STD-191	Textile Test Methods
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##### Military

MIL-STD-105	Sampling Procedures And Tables For Inspection By Attributes
MIL-STD-851	Coding: Manufacturer's Color, Nylon Parachute Cloth

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

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2.2 Other publications. The following document forms 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.

Rules and Regulations Under the Textile Fiber Products Identification Act

(Application for copies should be addressed to the Federal Trade Commission, Washington DC 20580.)

3. REQUIREMENTS

3.1 Standard sample. The finished cloth shall match the standard sample for shade and shall be equal to or better than the standard sample with respect to all characteristics for which the standard sample is referenced (see 6.3).

\* 3.2 Material. The nylon yarn used in the manufacture of all types and classes of parachute cloth shall be a bright, high tenacity, light and heat resistant, polyamide prepared from hexamethylene diamine and adipic acid or its derivatives. It shall have a melting point of  $254^{\circ} \pm 10^{\circ}$  Centigrade (C) when tested in accordance with 4.2.4.2. The yarn shall not be bleached in any manner or process.

3.3 Weave.

\* 3.3.1 Type I. The weave pattern for type I cloth shall be a two-up, two-down, right hand twill.

3.3.2 Type II. The weave pattern for type II cloth shall be as specified in Figure 1.

3.3.3 Type IIA. The weave pattern for type IIA cloth shall be as specified in Figure 2.

3.3.4 Type III. The weave pattern for type III cloth shall be as specified in Figure 3.

3.4 Physical and chemical properties. The physical and chemical properties of the finished cloth shall conform to Table I and subparagraphs thereto.

\* 3.4.1 Permanence of finish. The permanence of the cloth finish shall be such that when the cloth is subjected to the test specified in 4.2.4.1

a. The average of the air permeability readings taken after testing shall be within 15 percent plus or minus of the average of the readings taken before testing.

b. The cloth thickness after testing shall not exceed 10 percent more than the thickness before testing.

c. The cloth shrinkage measured after testing shall not exceed 2.0 percent in the warp or 1.0 in the filling direction.

3.4.2 Chloroform soluble matter. The chloroform soluble material of the finished cloth shall not exceed 2.0 percent when tested as specified in 4.2.4.

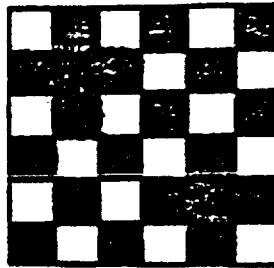


FIGURE 1. Weave Pattern Type II

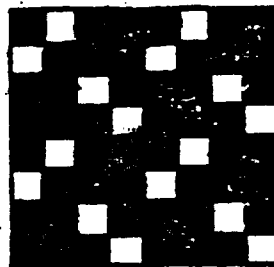
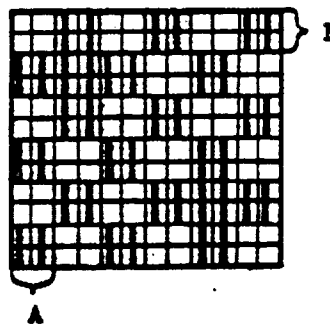


FIGURE 2. Weave Pattern Type IIA



A = Two warp ends woven as one.  
B = Two filling picks per shed.

FIGURE 3. Weave Pattern Type III

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TABLE I - Physical Requirements

	<u>Type</u>			
	I	II	IIa	III
Yarns per inch (min)				
Warp	70	53	40	38
Filling	70	48	38	38
Yarn ply				
Warp	Single	2	4	Single
Filling	Single	2	4	Single
Weight (oz/sq yd) (max)	4.75	7.00	10.50	14.00
Breaking strength (lbs/in)(min) (Ravel strip method)				
Warp	200	300	500	600
Filling	200	300	500	600
Elongation (percent) (min)				
Warp	25	25	25	25
Filling	25	25	25	25
Tearing strength (lbs) (min) (Tongue method)				
Warp	15	20	75	75
Filling	15	20	75	75
Thickness (in) (max)	0.020	0.024	0.025	0.035
Air permeability (cu ft air/minute/sq ft at 1/2 inch water pressure) (Class 1)	50 to 90	50 to 90	50 to 90	15 to 55
Air permeability (cu ft air/minute/sq ft at 20 inch water pressure) (Class 2)	450-650	450-650	650-750	250-450

3.4.3 Acidity-alkalinity (pH). The pH value of the finished cloth shall be within the range of 5.0 to 9.0 when tested as specified in 4.2.4.

3.4.4 Color. Unless otherwise specified, the color shall be natural (see 6.2).

3.4.4.1 Color matching. The color shall match the approved standard shade under natural (north sky) daylight or artificial daylight having a color temperature of 7500° Kelvin and shall be a good approximation to the standard shade under incandescent lamplight at 2800° Kelvin.

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3.4.4.2 Colorfastness. When a standard sample is available, the dyed and finished cloth shall show colorfastness equal to or better than the standard sample with respect to light, dry cleaning and laundering. In the event that a standard sample is not available, the dyed and finished fabric shall show "good" fastness to these same properties when tested as specified in 4.2.4.

### 3.4.5 Dimensions.

3.4.5.1 Width. Unless otherwise specified, the overall width of the finished cloth shall be 36.5 ±0.5 inches (see 6.2).

- \* 3.4.5.2 Length and put-up. Unless otherwise specified, the cloth shall be in continuous pieces, each not less than 50 yards. The pieces shall be put-up on rolls as specified in PPP-P-1133 (see 6.2). Shorter cuts may be included in accordance with the following schedule:

75 percent of total yardage in cuts 50 to 150 yards.

15 percent of total yardage in cuts 25 to 50 yards.

10 percent of total yardage in cuts 15 to 25 yards.

- \* 3.4.6 Light and heat resistant. The cloth shall not lose more than 25 percent of the original strength when tested in accordance with 4.2.4.

3.5 Fiber identification. Each piece shall be labeled or ticketed, and invoiced for fiber content in accordance with the rules and regulations under the Textile Fiber Products Identification Act (see 4.2.2.1.2).

3.6 Manufacturer's (weaver's) identification. Colored threads shall be woven into the selvage edges of the cloth to identify the weaver of the cloth to the procuring activity. The color used shall be those indicated in MIL-STD-851. The dye used in the marker threads shall have no deleterious effect on the physical properties of the thread and the dyed thread shall show no bleeding or color transfer when subjected to the tests for laundering and dry cleaning as specified in 4.2.1.

- \* 3.7 Identification of product. Each roll of finished cloth shall be marked for identification in accordance with PPP-P-1133. In addition, each piece of cloth in each roll shall be clearly and legibly marked with the finisher's roll number or code, and each roll shall have attached a durable tag on which the finisher's roll number or code is listed. The date of manufacture of the cloth shall be included on the tag attached to each roll.

- \* 3.7.1 Age. The cloth shall not be more than three and one-half years old from date of manufacture of the yarn to date of delivery of the cloth.

3.8 Bleaching. The cloth shall not be bleached by any manner or process.

3.9 Workmanship. The finished cloth shall be clean and evenly woven and shall conform to the quality and grade of product established by this specification, and the occurrence of defects shall not exceed the applicable acceptable 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

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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 supplies and services conform to prescribed requirements.

- \* 4.1.1 Certificates of compliance. The supplier shall submit certificates of compliance for the following characteristics.

<u>Characteristic</u>	<u>Requirement Paragraph</u>
Yarn tenacity	3.2
Yarn not bleached	3.2
Yarn luster	3.2
Manufacturer's (weaver's) identification	3.6
Age of cloth	3.7.1
Cloth not bleached	3.8

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

- \* 4.2.1 Testing of components. The components listed in Table II shall be tested for the characteristics specified in accordance with the referenced test method of FED-STD-191. The lot size shall be all the components offered for acceptance at one time and shall be expressed in units of one cone, tube or spool each. The sample unit shall be one cone, tube or spool. Inspection level shall be S-1 and the acceptable quality level shall be 4.0 test failures per 100 units.

TABLE II - Components and Materials

Component	Characteristic	Rqmt Para	Test Method	No. Determinations per Indv. Unit of Product	Results Reported
Warp and filling yarn	Melting point	3.2	1534 of FED-STD-191	2	Avg of 2 determinations to nearest degree centigrade
Identification yarns	Color fastness to laundering	3.6	5614 of FED-STD-191	1	Good
	Color fastness to dry cleaning	3.6	5620 of FED-STD-191	1	Good
	Melting point		1534 of FED-STD-191	2	To nearest degree centigrade

#### 4.2.2 Examination of product.

4.2.2.1 Yard-by-yard examination. A sufficient number of rolls shall be selected at random from an inspection lot so that the required sample yardage will be obtained by inspecting approximately 25 consecutive yards out of each sample roll. The required yardage of each piece shall be examined and the visual defects classified as listed in Table III. The sample size shall be in accordance with inspection level III of MIL-STD-105. The acceptable quality level expressed in defects per 100 units (yards) shall be 2.5 for major defects and 10 for total defects. The lot size shall be expressed in units of 1 yard each. The unit of product for this examination shall be 1 linear yard (i.e., increment of 1 yard on the measuring device of the inspection machine).

- \* 4.2.2.1.1 Flagging of defects. Each major defect shall be flagged by a red string sewn in the selvage. A continuous defect shall be flagged by a single red string sewn into the selvage for each yard containing the defect.

4.2.2.1.2 Examination for compliance with the Textile Fiber Products Identification Act. During the yard-by-yard examination each roll shall be examined for fiber identification. The lot shall be unacceptable if two or more rolls in the sample are not labeled in accordance with the rules and regulations under the Textile Fiber Products Identification Act.

4.2.2.2 Overall examination. During the yard-by-yard examination, each piece shall be examined for overall defects. The unit of product for overall examination shall be one piece. Each piece shall be examined and, should any piece contain any of the following defects, the lot represented shall be rejected:

- a. Objectionable odor
- b. Uncleanliness throughout
- c. Uneven dyeing, shadiness, spottiness, poor penetration of dye
- d. Uneven weaving
- e. Identification yarns misplaced, missing or wrong color

#### 4.2.2.3 Examination for length.

- \* 4.2.2.3.1 Individual rolls. During the yard-by-yard examination, each roll shall be examined for length. Any roll length found to be less than the minimum specified, or more than two yards below the length marked on the ticket, shall be considered a defect with respect to length. The lot shall be unacceptable if two or more rolls in a sample are defective with respect to length.

4.2.2.3.2 Total yardage. The lot shall be unacceptable if the total of the actual lengths of roll examined is less than the total of the lengths marked on the ticket.

4.2.3 Samples for testing of end item. An inspection lot will consist of the finished nylon cloth of one type, made under essentially the same conditions and presented for inspection at the same time. The lot size shall be expressed in units of one (1) yard. The sample unit shall be 4 continuous yards, full width of the finished cloth. The sample size shall be in accordance with level S-2 of MIL-STD-105. The acceptable quality level shall be 1.5 percent defective. Except for lot sizes up to 3,200 yards, the sample size shall be 3, acceptance number 0, and lots 3,201 to 10,000 yards, the sample size shall be 5, acceptance number 0.

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TABLE III - Classification of Defects

Defect	Description	Major	Minor
Abrasion mark	Any abrasion mark showing fuzziness	X	
Biased filling	More than 2 inches from horizontal at greatest point of bias	X	
Bowed filling	Filling bow more than 2 inches in height (as measured from a straight line cord to highest point of arc).	X	
Broken or missing end	Two or more contiguous regardless of length	X	
	Single, more than 18 inches missing	Y	
Broken or missing pick	Single, 18 inches or less missing		X
	Two or more contiguous regardless of length	X	
Coarse filling bar	One pick full width		X
	Clearly noticeable $\frac{1}{2}$ and extending for more than 1 inch in the length direction of the cloth	X	
Crease	Clearly noticeable $\frac{1}{2}$ and extending for 1 inch or less in the length direction of the cloth.		X
	Hard, embedded crease	X	
Cut, hole or tear	Any	X	
Distortion or slippage of threads	Any distortion or slippage of warp or filling threads that cannot readily be reset by hand	X	
Fine filling bar, thin or light place or light set mark.	Any clearly noticeable $\frac{1}{2}$ fine filling bar, thin or light place, or light set mark.	X	
Floats or skips	Any multiple float $\frac{3}{16}$ inch square or more	X	
	Single floats $\frac{1}{4}$ inch or more in length	X	
	Contiguous floats or pin floats 2/ the sequence of which measures 1 inch or more in length	Y	
	Any multiple float up to $\frac{3}{16}$ inch square		X
	Single floats up to $\frac{1}{4}$ inch in lengths		Y
	Contiguous floats or pin floats 2/ the sequence of which measures less than 1 inch in length		Y



TABLE III - Classification of Defects (Cont'd)

Defect	Description	Major	Minor
Heavy filling bar or heavy place	Over 1/8 inch in width and varying 10 percent or more from normal pick count	X	
	Over 1/2 inch in width and varying less than 10 percent from normal pick count	X	
	One-eighth inch or less in width and varying 10 percent or more from normal pick count		X
	One-half inch or less in width and varying less than 10 percent from normal pick count		X
Hitchback (warp catch)	Resulting in a thin place 3/8 inch or more in combined warp and filling direction	X	
Jerked-in filling or slough-off	Two or more additional yarns in the shed	X	
	One additional yarn in the shed NOTE: One-half inch or less shall not be considered a defect.		X
Loops, kinks, or snarls (except selvage)	All over 1/8 inch long	X	
	Three or more (in any linear yard) Up to 1/8 inch in length	X	
	Up to 2 (in any linear yard) 1/8 inch or less in length		X
Mispick or double pick	Three or more additional picks in the shed	X	
	Two picks		X
Misweave	Pattern not conforming to specified weave	X	
Pick-out mark	Resulting in a clearly noticeable <u>1</u> / thin or thick place	X	
Pinholes or yarn deformations	Over 6 pinholes or yarn deformations occurring within an area equal to a 6-inch diameter circle	X	
	Three to six pinholes or yarn deformations occurring within an area equal to a 6-inch diameter circle		X
Selvage cut, broken, torn, or scalloped	Any cut, broken, torn or scalloped selvage.	X	
Selvage slack or wavy	Clearly noticeable 1/ waviness along selvage edge when viewed without tension	X	

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TABLE III - Classification of Defects (Cont'd)

Defect	Description	Major	Minor
Selvage stringy or loopy	More than 3 inches of continuous stringy or loopy selvage projecting 1/8 inch or more Continuous stringy or loopy selvage projecting up to 1/8 inch	X	X
Selvage tight	Any clearly noticeable $\frac{1}{2}$ roll of edge or edges when tension is released	X	
Slubs or strip back $\frac{3}{4}$	More than 5 over 1/4 inch in length	X	
	Two up to and including 5 over 1/2 inch in length	X	
	One over 1 inch in length	X	
	Five or less over 1/4 inch but not exceeding 1/2 inch in length One over 1/2 inch but not exceeding 1 inch in length		X X
Smash	Any smash	X	
Spot, stain or streak (not applicable to dye streaks)	Single ends or picks 15 inches or more in length	X	
	Double ends or picks 8 inches or more in length	X	
	Over 2 ends or picks 5 inches or more in length or a clearly noticeable $\frac{1}{4}$ area more than 1/4 square inch in area, whichever is greater	X	
	Single ends or picks 2-1/2 inches up to 15 inches in length		X
	Double ends or picks 2-1/2 inches up to 8 inches in length		X
	Over 2 ends or picks less than 5 inches in length or a clearly noticeable area $\frac{1}{4}$ square inch or less in area, whichever is greater		X
Weak place	Any weak place	X	
Width	Beyond specified tolerances	X	
Wrong draw	Resulting in a clearly visible $\frac{1}{2}$ warpwise streak more than 18 inches in length	X	

$\frac{1}{2}$  Clearly noticeable at normal inspection distance (3 feet).

$\frac{2}{4}$  A pin float is defined as a float measuring 1/8 inch or less. Single pin floats shall not be considered a defect.

$\frac{3}{4}$  A strip back is defined as a broken filament(s) wrapped around the remaining yarn forming an enlarged area resembling a slub.

4.2.4 Testing of the end item. The methods of testing specified in FED-STD-191, wherever applicable, as listed in Table IV, and as specified in 4.2.4.1 through 4.2.4.3, shall be followed. The physical and chemical values specified in Section 3 apply to the average of determinations made on a unit of product for test purposes as specified in the applicable test methods.

4.2.4.1 Permanence of finish. Two 20-inch square specimens of the cloth shall be prepared. Using a template and indelible ink, an 18-inch square shall be marked on each specimen. The specimens shall be subjected to the air permeability and thickness tests in accordance with methods 5450.1 and 5030.1 of FED-STD-191. A container of adequate size to accommodate both specimens, prepared as described below, shall be filled to within 3 inches of the top with water which shall be heated to a rapid boil. The samples shall be a minimum of 3 inches below the surface of the boiling water. Both specimens shall be placed in the boiling water in a "skein" form prepared by stapling the two opposite sides of a specimen together to form a loop or skein. One specimen shall have the warp yarns vertical in the skein and the other specimen shall have the filling yarns vertical. Each specimen shall then be placed over a glass rod 1/4 inch in diameter and 21 inches in length. A glass tube, 1/4 inch in diameter and 21 inches in length, and approximately 100 grams in weight, shall be placed inside each loop at the bottom. Both loops shall then be suspended freely in the boiling water bath by attaching each with twine or wire to glass rods which are 1/4 inch in diameter and of sufficient length to rest on the top of the container. The specimen shall be subjected to the action of the boiling water bath for a period of 15 minutes, after which they shall be removed from the bath and allowed to drain for a few minutes. The staples shall be removed from the specimens and the specimens shall be placed flat on a horizontal screen to air dry. After the specimens are thoroughly dry, they shall be exposed for at least 4 hours to a standard atmosphere of 65 ± 2 percent relative humidity and a temperature of 70° ± 2°F. The 18-inch square shall be measured to the nearest 0.01 inch in 6 places, 3 in the warp direction and 3 in the filling direction. The results of the warp skein and filling skein for thickness, air permeability, and shrinkage shall be averaged, and acceptance based on the average results. The percentage of shrinkage in either the warp or filling direction shall be computed as follows

$$\frac{18 - \text{distance between marks after boiling}}{18} \times 100 = \text{percent shrinkage}$$

The specimen shall again be subjected to the air permeability and thickness test to determine conformance to 3.4.1.

- \* 4.2.4.2 Resistance to heat and light. The test specimens for determining resistance to heat and light shall be so selected that the identical warp and filling yarns are tested originally and after subjection to heat and light. This shall be done by marking all the specimens required before cutting. The specimens shall be so cut and marked that specimens in each group, i.e., warp and filling for original breaking strength, for resistance to heat and resistance to light contain identical yarns.

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TABLE IV - Test Methods

Test Characteristics	Requirement Paragraph	Test Method
Weave	3.3	Visual
Yarns per inch	Table I	5050
Yarn ply	Table I	Visual
Weight	Table I	5041
Breaking strength and elongation (ravel strip) <u>1/</u>	Table I	5104
Tearing strength (tongue)	Table I	5134
Air permeability <u>2/</u>	Table I	4.2.4.3
Thickness	Table I	5030.1
Permanence of finish	3.4.1	4.2.4.1
Chloroform soluble matter	3.4.2	2611
Acidity - alkalinity (pH)	3.4.3	2811
Colorfastness		.
Laundering <u>3/</u>	3.4.4.2	5614
Dry cleaning <u>3/</u>	3.4.4.2	5620
Light <u>4/</u>	3.4.4.2	5660
Width	3.4.5.1	5020
Resistance to light	3.4.6	4.2.4.2.1
Resistance to heat	3.4.6	4.2.4.2.2

- 1/ Except that both jaws of the testing apparatus shall be 1 inch by at least 1-1/2 inches with the long dimension perpendicular to the direction of the application of the load.
- 2/ The air permeability requirements shall be tested at the following differential pressures:
- Class 1 - 1/2 inch of water  
Class 2 - 20 inches of water
- 3/ A 2 by 2 inch square of white cloth conforming to this specification shall be used to ascertain color transfer or bleeding
- 4/ Except that the specimen shall be exposed for 20 standard fading hours.

- \* 4.2.4.2.1 Resistant to light. Specimens of fabric shall be exposed in the accelerated weathering unit as specified in Test Method 580<sup>4</sup> of FED-STD-191. A sufficient quantity of specimens to make five warp and five filling breakage tests shall be exposed. The total exposure time shall be 50 hours at 55 ±10 percent relative humidity and a black panel temperature of 155° ±10°F during the entire exposure period. At the end of the exposure period the specimens shall be brought to equilibrium under standard conditions as defined in FED-STD-191. They shall then be tested for breaking strength as specified in Table IV and the percent of breaking strength lost shall be calculated as follows.

$$\frac{\text{Original breaking strength} - \text{breaking strength after aging}}{\text{Original breaking strength}} \times 100$$

= percent of breaking strength lost

- 4.2.4.2.2 Resistance to heat. Five warp and five fillings tests shall be made. The test specimens shall be suspended in a circulating air oven at a temperature of 180° ±3°C (357° ±5°F) for one hour. After removal from the oven, the specimens shall be brought to equilibrium under standard conditions as defined in FED-STD-191. They shall then be tested for breaking strength as specified in Table III and the percent of breaking strength lost shall be calculated as in 4.2.4.2.1.
- \* 4.2.4.3 Air permeability. The test specimen shall be 7 inches long and the full width of the cloth. The air permeability test shall consist of five individual readings made in accordance with method 5450.1 of FED-STD-191. The individual test specimen except that no readings shall be taken within an area from the selva equal to 10 percent of the specimen width. The air permeability of the test specimen shall be the arithmetic mean or average of the five individual readings.
- \* 4.3 Examination and preparation for delivery. An examination shall be made in accordance with the provisions of PPP-P-1133 to determine that packaging, packing and marking requirements of Section 5 of this specification are complied with.

## 5. PREPARATION FOR DELIVERY

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

- \* 5.1.1 Levels A and C. The cloth, put up as specified, shall be packaged in accordance with the applicable requirements of PPP-P-1133.

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

- \* 5.2.1 Levels A, B, and C. The cloth shall be packed in accordance with the applicable requirements of PPP-P-1133.

- \* 5.3 Marking. In addition to any special marking required by the contract or order, shipments shall be marked in accordance with the applicable requirements of PPP-P-1133.

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6. NOTES

6.1 Intended use. The nylon cloth is intended for use in the manufacture of cargo and deceleration parachutes.

\* 6.2 Ordering data. Procurement documents should specify the following:

- a. Title, number and date of this specification.
- b. Type and class (1.2).
- c. Color (3.4.4).
- d. Whether standard sample is available for colorfastness test (3.4.4.2).
- e. Quantity.
- f. Width, if other than specified in 3.4.5.1.
- g. Length and put-up (3.4.5.2).
- h. Selection of the applicable levels of packaging and packing (5.1 and 5.2).

6.3 Standard sample. For access to standard sample address the procuring office issuing the invitation for bids.

\* 6.4 Dyes. Prenatalized dyes have proven satisfactory in dyeing this cloth. The requirements for light and heat resistance are based on the use of this class of dye.

\* 6.5 The margins of this specification are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians:

Navy - AS  
Air Force - 82

Preparing Activity:  
Air Force - 82

Review Activities:

Navy - AS  
Air Force - 82

Project No. 8305-0175

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**NOTE.** This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

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DEPARTMENT OF THE AIR FORCE



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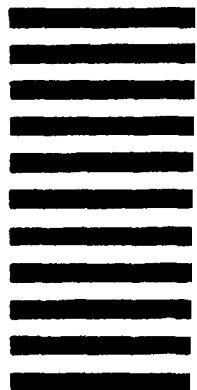
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## STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

1. DOCUMENT NUMBER		2. DOCUMENT TITLE	
3. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one)	
5. ADDRESS (Street, City, State, ZIP Code)		<input type="checkbox"/> VENDOR <input type="checkbox"/> USER <input type="checkbox"/> MANUFACTURER <input type="checkbox"/> OTHER (Specify): _____	
6. PROBLEM AREAS			
a. Paragraph Number and Wording:			
b. Recommended Wording:			
c. Reason/Rationale for Recommendation:			
7. REMARKS			
7a. NAME OF SUBMITTER (Last, First, MI) - Optional		7b. WORK TELEPHONE NUMBER (Include Area Code) - Optional	
7c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional		7d. DATE OF SUBMISSION (YYMMDD)	