

MIL-C-43375D(GL)
AMENDMENT-1
29 April 1985

MILITARY SPECIFICATION

CLOTH, DUCK, NYLON, 12.5 OUNCE

This amendment forms a part of Military Specification MIL-C-43375D(GL), dated 21 May 1981, and is approved for use by all Departments and Agencies of the Department of Defense.

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2.1, under "SPECIFICATIONS FEDERAL" in title of PPP-P-1133, line 1: Delete "and Packing".

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Add the following:

"2.2 Other publications. Unless otherwise specified, the following documents of the issue in effect on date of invitation for bids or request for proposal, form a part of this document to the extent specified herein.

AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS (AATCC)

Chromatic Transference Scale

(Application for copies should be addressed to the American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709.)

(Technical society and technical association documents are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document shall take precedence.

3.1, line 1, after "and": Add "finish appearance and".

3.3, lines 1 and 2: Delete "and 6.4)".

3.3.1: Delete and substitute:

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"3.3.1 Matching. The color shall match the standard sample when viewed under filtered tungsten lamps which approximate artificial daylight having a correlated color temperature of 7000 + 500 K, with illumination of 100 + 20 foot candles, and shall be a good match to the standard sample under incandescent lamplight at 2300 + 100 K."

3.3.2, line 5: Delete "Munsell 8.5" and substitute "an AATCC Chromatic Transference Scale rating of 3.5".

Add the following paragraph and table:

"3.3.3 Infrared Reflectance. When shade Olive Green-106 is specified, the infrared reflectance values of the finished cloth shall meet the requirements specified in table IA, when tested as specified in 4.2.3

TABLE IA. Infrared Requirements For Olive Green-106
Reflectance values (percent)

<u>Wavelength</u> <u>Nanometers</u>	<u>Max</u>	<u>Min</u>	<u>Wavelength</u> <u>Nanometers</u>	<u>Max</u>	<u>Min</u>
600	13	3	740	80	30
620	13	3	760	85	32
640	13	3	780	90	32
660	13	3	800	90	32
680	22	3	820	90	32
700	46	8	840	90	32
720	66	20	860	90	32"

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3.4, line 1: Delete "minimum".

TABLE I: Delete and substitute:

"TABLE I. Physical requirements

<u>Weight</u> <u>oz./sq.yd.</u> <u>(minimum)</u>	<u>Yarns per inch</u> <u>(minimum)</u>		<u>Breaking strength</u> <u>Pounds (minimum)</u>		<u>Air permeability</u> <u>cu.ft./min./sq.ft.</u> <u>(maximum)</u>
	<u>Warp</u>	<u>Filling</u>	<u>Warp</u>	<u>Filling</u>	
12.5	56	28	800	700	3.0"

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3.5.3, line 1: Delete "5.0" and substitute "5.5".

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4.2.2.3, line 2, after "shade": Add "and finish appearance".

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Table III, below "Colorfastness to: Crocking": Add "Infrared reflectance 3.3.3 4.3.1"

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Add the following paragraphs:

"4.3 Methods of inspection.

4.3.1 Infrared reflectance test. Percent reflectance data shall be obtained on a Spectrophotometer (see 6.4) at 20 nanometer (nm) intervals for the range 600 to 860 nm. Specimens shall be measured relative to a barium sulfate standard white reference when a double beam spectrophotometer is used. The spectral band width of the spectrophotometer at 860 nm shall be less than 25 nm. Reflectance measurements may be made by either the monochromatic or polychromatic mode of operation. When the polychromatic mode operation is used, the spectrophotometer shall operate with the specimen diffusely illuminated with the full emission of a continuous source that simulates in the visible spectrum either CIE Source A or CIE Source D 65. Specimens shall be measured as a single layer backed with two layers of the self fabric. The specimen shall be viewed at an angle no greater than 10 degrees from normal. Photometric accuracy of the spectrophotometers shall be within 1 percent, and the wavelength accuracy shall be within 2 nm."

Delete section 5 in entirety and substitute the following:

"5. PACKAGING

5.1 Put-up and preservation. Put-up and preservation shall be level A or Commercial as specified (see 6.2).

5.1.1 Levels A and Commercial. The cloth, shall be put-up and preserved in accordance with the applicable requirements of PPP-P1133.

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

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

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

6.4: Delete and substitute:

"6.4 Spectrophotometers. Suitable spectrophotometers for measuring spectral reflectance in the near-infrared are the Diano Hardy, Diano Match Scan, Hunter D54P-IR and Macbeth 1500 with IR option."

Custodian:

Army - GL

Preparing activity:

Army - GL

Project No. 8305-A021

Review activities:

Army - MD, ME
DLA - CT