INCH-POUND

MIL-C-44436(GL)
INTERIM AMENDMENT 1
14 September 1995

MILITARY SPECIFICATION

CLOTH, CAMOUFLAGE PATTERN, WIND RESISTANT POPLIN, NYLON/COTTON BLEND

This specification amendment forms part of MIL-C-44436 dated 13 July 1992 and is approved for use by all Departments and Agencies of the Department of Defense.

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1.2 Classification., line 6: After information for "Class 4" add the following: "Class 5 - Black 357".

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3.3.2 Nylon., line 3: Delete "1.8" and substitute the following: "1.6 to 1.8".

3.3.3 Yarns., delete in its entirety and substitute the following: "3.3.3 Static Dissipative fiber. The fiber shall have a carbon core and nylon sheath and shall be 3 denier per filament, and 1-1/2 to 2 inches in staple length (see 6.13).".

After paragraph 3.3 3, add the following: "3.3.4 Yarns. The warp and filling yarn shall be made from a blend of 50 ($\pm$ 5) percent nylon, 1 percent static dissipative fiber and the remaining percentage cotton, based on the dry weight of the desized cloth when tested as specified in 4.4.3. The warp yarn shall be 2-ply or singles.".

3.4.2 Color, classes 3 and 4., line 4: Delete "automatic".

After paragraph 3.4.2, add the following paragraph: "3.4.2.1 Color, class 5   The color of the dyed class 5 cloth shall be shade Black 357. Resin bonded pigments are not permitted.".

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After paragraph 3.4.6 add the following: "3.4.7 Colorfastness, class 5. The Black 357 dyed finished cloth shall show fastness to light (after 40 standard fading hours), and perspiration equal to or better than the standard sample or equal to or better than a rating of "good", except for fastness to laundering (after 3 cycles), which shall be equal to or better than the standard sample or equal to or better than a rating of "fair". The finished cloth shall show fastness to crocking equal to or better than the standard sample or shall have an AATCC Chromatic transference Scale Rating of not lower than 1.0 Testing shall be as specified in 4.4.3.".

3.5 Pattern execution., line 1: After "execution" add "(classes 1, 2, 3 and 4)".

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After "TABLE II" add the following: "3.6.3 Spectral reflectance, class 5. The Spectral reflectance values for the class 5 cloth shall conform to the requirements in Table IIA, when tested as specified in 4.4.3.".

TABLE IIA. Spectral reflectance requirements, class 5

Wavelength, Nanometers	Reflectance values (percent)	
	Black 357	
	Min.	Max.
600	2	10
620	2	10
640	2	11
660	2	13
680	2	15
700	4	20
720	9	30
740	14	40
760	18	49
780	23	55
800	29	60
820	34	64
840	39	69
860	45	75"

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After 3.13 add the following paragraph: "3.14 <u>Electrostatic decay</u>. The finished cloth shall, when charged toward +5000 volts and -5000 volts, reach a minimum level of +4000 and -4000 volts respectively and shall dissipate 90 percent of this charge in less than or equal to 1/2 second. The average warp results and average filling results shall meet these requirements before and after five launderings when tested as specified in 4.4.3.".

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4.4.2.1.1 <u>Demerit points</u>., list of defects, line 8: After "Pattern design" add "or solid shade (class 5)".
Line 9: After "pattern" add "(classes 1 through 4)".
Line 10: After "sample" add "(classes 1 through 4)".

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List of defects, line 2: After "sample" add "(classes 1 through 4)".
Line 4: After "sample" add "(classes 1 through 4)".
Line 6: After "sample" add "(classes 1 through 4)".
Line 8: After "sample" add "(classes 1 through 4)".

4.4.3 <u>End item testing</u>., line 5: After "of" delete "printed".

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TABLE V: Under Requirements paragraph for Colorfastness, delete "3.4.5 and 3.4.6 in 4 places and substitute "3.4.5, 3.4.6 and 3.4.7" in 4 places.

TABLE V: After information for Spectral reflectance, Classes 3 and 4, add the following information under the appropriate column:

Characteristic	Requirement para	Test method
"Class 5	3.6.3	4.5.4"

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Add the following test methods to TABLE V: After Seam efficiency
under the appropriate column add the following:

Characteristic	Requirement para.	Test method
"Electrostatic decay:		
initial	3.14	5931
After five launderings	3 14	5556 and 5931"

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4.5.2 <u>Colorfastness evaluation test</u>., line 2: After "pattern"
add "or solid shade".
Line 4: After pattern add ", or solid shade".

4 5.3 <u>Colorfastness to crocking evaluation test</u>., Line 2: After
"crocking," add "when applicable,"
Line 2: delete "individual" and substitute "when applicable, the
individual".

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4.5.4 <u>Spectral reflectance test</u>., line 2: After "classes" delete
"1 and 2" and substitute "1, 2, and 5".
Line 24: After "standard.", add the following: "For class 5,
2-backing layers shall be used.".
Line 31: After "Table II," add "or the Black 357 in Table IIA,".

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6.1 <u>Intended used</u>., line 2: After "pattern" add "and black".

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After 6.12, add new paragraph: "6.13 <u>Static dissipative fiber</u>.
The static dissipative fiber, also known as P-140, is available
premixed in bale form in a 98% T-420 nylon/ 2% P-140 fiber blend
from E. I. DuPont De Nemours & Co., Inc., Wilmington, DE 19880".

Preparing Activity
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