NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document must continue to apply.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées. Les avis de divulgation et les instructions de manutention reçues originalement doivent continuer de s'appliquer.

SPECIFICATION FOR CLOTH, MELTON, WOOL

1.1 Scope

This specification covers the requirements for Cloth, Melton, Wool.

1.2 Classification

The fabric must be classified as: Cloth, Melton, Wool.

1.3 Applicable Documents

The following documents form part of this specification to the extent specified, and are supportive of this specification when referenced; all other document references are to be considered supplemental information only. In the event of a conflict between the documents referenced and the contents of this specification, then the contents of this specification must take precedence:

CAN/CGSB Standards (email: ncr.cgsb-ongc@pwgsc.gc.ca)

- CAN/CGSB-4.2-M Textile Test Methods

American Association of Textile Chemists and Colorists Standards (www.aatcc.org)

- AATCC Test Method 16 Colourfastness to Light

FED Standards (Download Documents: http://assist.daps.dla.mil/quicksearch/)

- FED-STD-595C - Colors Used in Government Procurement

1.4 Sealed Patterns

The following sealed pattern is available to the bidders to be used for the guidance of the manufacturer for finish only. Under no circumstances must a sealed pattern be mutilated or cut.

DCGEM 260-85: Cloth, Melton, Wool, 375 g/m^2, Air Force Blue. For finish only.

1.5 Order of Precedence

In the event of any inconsistency in contract documents such as contract, specification and sealed patterns, the order of precedence must be contract, specification, and sealed pattern. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification must take precedence. For any inconsistency in technical details between languages, the language of the original

document, which in this case is English, must take precedence. Nothing in this document supersedes applicable laws and regulations, unless a specific exemption has been obtained.

2.0 **REQUIREMENTS**

2.1 Fabric Structure

The fabric must be a Broken Twill Weave. When tested in accordance with the applicable test methods, the finished fabric must comply with the requirements specified in Table 1.

2.2 Finish

The finish must be as depicted by Sealed Pattern DCGEM 260-85.

2.3 Workmanship

The material covered by this specification must be free of imperfections or blemishes such as may adversely affect its appearance or serviceability. For inspection purposes, imperfections and blemishes are considered defects when clearly visible at a normal inspection distance of approximately 1 m (3.3 ft) under good, preferably Northern Light, lighting conditions.

2.4 Yarns

The yarn must be singles, woolen spun yarns of a blend containing not less than 88 per cent wool of 60/64s (Bradford) quality and not more than 12 per cent virgin nylon staple.

2.5 Colour

The fabric must be a non-florescent earth-tone colour. By definition, earth tone is considered a color scheme that draws from a color palette of browns, tans, grays, greens, oranges, whites and some reds. The colors in an earth tone scheme are muted and flat in an emulation of the natural colors found in soils, moss, trees and rocks. For the purpose of this specification, the earth tone color must be based on the predominantly brown, tan and gray color series (lusterless) within FED STD-595C, where those colors do not include any elements of orange, red and white.

Table 1: Testing Requirements for Finished Cloth

Property	Test Method	Specified Requirement	Minimum Acceptable	Maximum Acceptable
Mass	CAN/CGSB 4.2 Test Method 5.1	375 g/m^2	363 g/m^2	387 g/m^2
Fabric Count (yarns per cm)	CAN/CGSB 4.2 Test Method 6	Warp: 16 Weft: 14	Warp: 15 Weft: 13	
Breaking Strength	CAN/CGSB 4.2 Test Method 9.1 (Test 6.1)	Warp: 196 N Weft: 196 N	Warp: 178 N Weft: 178 N	
Dimensional Change in Wetting	CAN/CGSB 4.2 Test Method 25.1			Warp: 4.0 % Weft: 4.0 %
Non-Fibrous Materials	CAN/CGSB 4.2 Test Method 15 (Note 1)			3.0%
Colourfastness to Dry Cleaning	CAN/CGSB 4.2 Test Method 29.1	No change in colour: Grey Scale 5		No appreciable colour change: Grey Scale 4
Colourfastness to Crocking	CAN/CGSB 4.2 Test Method 22 (Tests 6.1 & 6.2)	Colour change and staining: Wet: Grey Scale 5 Dry: Grey Scale 5		Colour change and staining: Wet: Grey Scale 4 Dry: Grey Scale 4
Colourfastness to Water	CAN/CGSB 4.2 Test Method 20	No change in colour and no staining: Grey Scale 5		No appreciable change in colour and no appreciable staining: Grey Scale 4
Colourfastness to Salt Water	CAN/CGSB 4.2 Test Method 21	No change in colour and no staining: Grey Scale 5		No appreciable change in colour and no appreciable staining: Grey Scale 4
Colourfastness to Light	AATCC Textile Test Method 16 (Option E)		Sample Grey Scale 4 after 40 AATCC Fading Units	
Colourfastness to Perspiration	CAN/CGSB 4.2 Test Method 23	No change in colour and no staining: Grey Scale 5		No appreciable change in colour and no appreciable staining: Grey Scale 4
Colourfastness to Pressing	CAN/CGSB 4.2 Test Method 31 (dry press at 185°C for 20 seconds)	No change in colour and no staining: Grey Scale 5		No appreciable change in colour or staining: Grey Scale 4

Quantitative Analysis	CAN/CGSB 4.2 Test Method 14		Wool: 88%	Nylon: 12%

Note 1: CAN/CGSB-4.2 Method 15 paragraph 7.4, solvent extraction, one of petroleum ether, tetrachloroethylene or hexane must be used.