

### 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, PLAIN WEAVE, NYLON -20-LC64**

### 1.1 Scope

This specification covers the requirements for Cloth, Plain Weave, Nylon.

### 1.2 Classification

The fabric must be classified as: Cloth, Plain Weave, Nylon.

### 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](mailto: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](http://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.

DSSPM 268-07: Cloth, Plain Weave, Nylon, 195 g/m<sup>2</sup>. 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 plain woven, 2x2 basket weave, 2 ends as 1, 2 picks as 1. The warp and weft may be the same provided that all properties of the specification are met with the exception of the count. If 420 denier nylon yarn is used in the weft, the weave of the fabric must be plain 2 ends as 2 with single filling, and the weft yarns per cm must be reduced by 50 per cent. When tested in accordance with the applicable test methods, the finished fabric must comply with the requirements specified in Table 1.

#### 2.1.1 Finish

The finish must be as depicted by Sealed Pattern DCGEM 268-07.

### 2.2 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.

### 2.3 Yarns

The yarns must be continuous filament nylon in both warp and weft.

### 2.4 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: Finished Fabric

| Property  | Test Method                                      | Specified Requirement  | Minimum Acceptable         | Maximum Acceptable  |
|---|--|--|----------------------------|---|
| Fabric Count<br>(yarns per cm)  | CAN/CGSB 4.2<br>Test Method 6                    | Warp: 42<br>Weft: 32   | Warp: 40<br>Weft: 31       |   |
| Mass  | CAN/CGSB 4.2<br>Test Method 5.1                  | 195 g/m <sup>2</sup>   | 190 g/m <sup>2</sup>       | 203 g/m <sup>2</sup>  |
| Breaking Strength   | CAN/CGSB 4.2<br>Test Method 9.1 (Test 6.1)       | Warp: 1020 N<br>Weft: 775 N  | Warp: 935 N<br>Weft: 710 N |   |
| Dimensional Change in Laundering  | CAN/CGSB 4.2<br>Test Method 24 or 58 (IIIE3)     |  |                            | Warp: 3.0%<br>Weft: 3.0%  |
| Water repellency - Spray<br><br>As received<br><br>After washing (2 cycles) in accordance with CAN/CGSB 4.2<br>Test Method 24 or 58 (IIIE3)<br><br>After drycleaning (2 cycles) in accordance with CAN/CGSB 4.2<br>Test Method 29.1 | CAN/CGSB 4.2<br>Test Method 26.2                 |  | All Conditions: 100        |   |
| Non-Fibrous Materials   | CAN/CGSB 4.2<br>Test Method 15 (Note 1)          |  |                            | 2%  |
| Colourfastness to Crocking  | CAN/CGSB 4.2<br>Test Method 22 (Tests 6.1 & 6.2) | Colour change and staining:<br>Grey Scale 5                                    |                            | No appreciable change in colour and no appreciable staining: Grey Scale 4           |
| Colourfastness to Dry Cleaning  | CAN/CGSB 4.2<br>Test Method 29.1                 | No change in colour and no staining of the attached white fabric: Grey Scale 5 |                            | No appreciable colour change or staining of the attached white fabric: Grey Scale 4 |

|                         |  |  |  |  |
|-------------------------|--|--|--|--|
| Colourfastness to Light | AATCC Textile Test<br>Method 16 (Option E) |  | Sample Grey Scale 4 after 40<br>AATCC fading units |  |
|-------------------------|--|--|--|--|

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