

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

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SPECIFICATION FOR CLOTH, KNIT, POLYESTER, DOUBLE-SIDED PILE (VELOUR), BROWN

1.1 Scope

This specification covers the technical requirements for cloth, knit, polyester, double-sided pile (velour) in a brown colour.

1.2 Classification -20-LC64

The fabric must be classified as: Cloth, Knit, Polyester, Double-Sided Pile (Velour), Brown.

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
- AATCC Test Method 116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method

American Society for the Testing of Materials (www.astm.org)

- ASTM D 1230 Standard Test Method for Flammability of Apparel Textiles
- ASTM D 2594 Standard Test Method for Stretch Properties of Knitted Fabrics Having Low Power
- ASTM D 4966 Standard Test Method for Abrasion Resistance of Textile Fabrics (Martindale Abrasion Tester Method)

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

- FED-STD-191A Federal Standard for Textile Test Methods

International Standards Organization (ISO) (www.iso.org)

- ISO 11092 Textiles - Physiological Effects - Measurement of Thermal and Water Vapour Resistance Under Steady-State Conditions (Sweating Guarded Hot-Plate Test)

1.4 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 polyester knit double-sided pile. 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 fabric must be double-faced, veloured, and sheared.

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 yarn must be continuous filament polyester.

2.4 Colour

The fabric must be a non-florescent earth-tone colour (e.g., coyote brown or equivalent). 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: Requirements for Finished Fabric

PROPERTY	TEST METHOD	MINIMUM ACCEPTABLE	MAXIMUM ACCEPTABLE
Mass - finished (g/m ²)	CAN/CGSB-4.2 Test Method 5.1		275
Bursting Strength (N)	CAN/CGSB-4.2 Test Method 11.2	370	
Resistance to Pilling	CAN/CGSB-4.2 Test Method 51.2 Report rating after 5, 10, 20 and 30 minutes.	Rating 3 after 30 minutes	
CLO - initial	ISO 11092 Wash in accordance with CAN/CGSB-4.2 Test Method 58 Test III.E.3 (50°C, normal agitation, tumble dry)	0.7	
CLO - after five washes	ISO 11092 Wash in accordance with CAN/CGSB-4.2 Test Method 58 Test III.E.3 (50°C, normal agitation, tumble dry)	0.7	
Air Permeability (cm ³ /cm ² /s)	CAN/CGSB-4.2 Test Method 36	120	165
Flammability	ASTM D1230	Class 1	
Stiffness - Drape	FED-STD-191 Method 5206		Length: 2.7 cm Width: 2.7 cm
Colour Fastness to Light	AATCC Technical Manual Test Method 16 Option E		Sample Grey Scale 4 after 20 AATCC fading units
Colour Fastness to Laundering	CAN/CGSB-4.2 Test Method 19.1 Test #2	Colour Change and Staining: GS 4	
Colourfastness to Crocking (All Colours)	AATCC Technical Manual Test Method 116	Dry: Grey Scale 4 Wet: Grey Scale 3-4	
Colourfastness to Perspiration	CAN/CGSB-4.2 Test Method 23	Colour Change and Staining: GS 4	
Abrasion Resistance	ASTM D4966		Surface pile may show slight distortion. Negligible wear of base fabric or loss of pile is allowed.

PROPERTY	TEST METHOD	MINIMUM ACCEPTABLE	MAXIMUM ACCEPTABLE
Stretch Properties	ASTM D2594 (Fabric Growth)		After 1 hour: Length: 2.0% growth Width: 4.0% growth