



Royal Canadian Mounted Police
Gendarmerie royale du Canada

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Specification

Cloth, Wool, Superfine

This document has 11 pages
including the drawings.

This document was created in
English.

The document is available in
English and French.

☒ English/Anglais
Français/French

The photograph on this page
is for reference only.

Modifications

[illegible]

RCMP VIEWING SAMPLE

A viewing sample, when available, will be supplied to the successful bidder.

This will be used for the guidance of the manufacturer in all factors not covered by this specification or referred to therein. Variation from the specification may appear in the sample in which case the specification must govern.

It may be obtained from:

Royal Canadian Mounted Police
Uniform & Equipment Program
(440 Coventry Road, Warehouse Building)
73 Leikin Drive
Ottawa, Ontario
K1A 0R2

It will be sent “prepaid” and is to be returned “prepaid”.

The viewing sample must be returned to the RCMP in the same condition as received by the manufacturer. Lost or damaged viewing samples must be replaced by an identical item or the RCMP must be reimbursed for the cost of an acceptable replacement.

SPECIFICATION
Cloth, Wool, Superfine

1. Definitions

- 1.1 This specification must govern the manufacture and inspection of Cloth, Wool, Superfine. The specific item covered under this specification with stock number is as follows:
- i. 8703 100 Cloth, Wool, Superfine, Yellow / Tissu de laine superfine, jaune
- 1.2 This specification, viewing sample, or other information issued in connection therewith, may only be used for specific enquiries, solicitations, or orders placed on behalf of the Royal Canadian Mounted Police.
- 1.3 This specification supersedes all previous specifications for Cloth, Wool, Superfine
- 1.4 This specification has been translated into French from this original English language document.

2. Applicable Specifications

- 2.1 The following publications are applicable to this specification and to the issues in effect on the date of the solicitation, unless otherwise specified.
- 2.2 **Canadian General Standards Board (CAN/CGSB);**
- | | |
|--------------------------|--|
| 4.2 No. 5.1-M90 (R2013) | Textile test methods – Unit mass of fabrics |
| 4.2 No. 6-2013 | Textile test methods – Woven Fabrics, Determination of number of threads per unit length |
| 4.2 No. 9.1-M90 (R2013) | Textile test methods Breaking strength of fabrics — Strip method |
| 4.2 No. 14-2005 | Textile test methods – Quantitative analysis of fibre mixtures |
| 4.2 No. 22-2004 (R2013) | Textile test methods – Colourfastness to rubbing (Crocking) |
| 4.2 No. 23-M90 (R2013) | Textile test methods – Colourfastness to perspiration |
| 4.2 No. 25.1-97 (R2013) | Textile Test Methods – Dimensional Change in Wetting |
| 4.2 No. 25.2-M89 (R2013) | Textile Test Methods – Dimensional Change of Textile Fabrics to Open-Head Steaming |

- 4.2 No.45-M88 (R2013) Textile Test Methods – Textile Fabrics – Determination of the Recovery From Creasing of a Horizontally Folded Specimen by Measuring the Angle-of-Recovery
- 2.3 **American Association of Textile Chemists and Colorists (AATCC);**
Test Method 132-2013 Colorfastness to Dry cleaning
- 2.4 **International Standards Organization (ISO);**
105-B02:2014 Colour fastness to artificial light: Xenon arc fading lamp test
105-E04:2013 Colourfastness to perspiration
105-X12:2016 Colourfastness to rubbing (Crocking)
7211-2:1984 Textile test methods – Woven fabrics count – Number of threads per unit length
22198:2006 Determination of width and length
- 2.5 **American Society for Testing and Materials (ASTM);**
D3512/D3512M-16 Standard Test Method for Pilling Resistance

3. **General Requirements**

- 3.1 The article or material covered by this specification must be free from material and manufacturing defects that may affect its appearance or serviceability. In all particulars not covered by this specification or contract documents, production must be equivalent in all respects to the viewing sample.
- 3.2 The finished product must meet all requirements and inspections covered by this specification. No departure from this specification must be permitted unless authorized by the RCMP.

4. **Detail Requirements**

- 4.1 **Description** – The cloth must be two-ply yarn 100% spun wool meeting all the performance criteria set out in Table I. The material must be yarn dyed in yellow to match viewing sample.

4.2 **Defects** - All defects (imperfections or blemishes) affecting appearance or serviceability, clearly visible when viewed under lighting conditions of day light 65, must be strung (flagged) on one selvedge using colourfast strings. All defects must be indicated on the inspection report and listed in the fault map as provided in Appendix A. Defects must be separated into two categories; major and minor. Major defects include, but are not limited to, seams, splices, stop marks, mispicks or any defect such as dust patches larger than 0.20 of a metre and less than 0.50 of a metre. Minor defects include, but are not limited to, stains, contamination, dirty spots, knots/slubs broken warp or weft that are no greater than 0.20 metres in size. The number of defects must not exceed 10 per 100 linear metres of cloth and must be prorated (9 per 90 etc.) and no more than two must be major defects. A 0.20 metre allowance for every minor defect must be made and deducted from the gross piece yardage. A 0.50 metre allowance for every major defect must be made and deducted from the gross piece yardage.

4.3 **Outright Rejection** - If the following conditions are prevalent throughout, it must be a cause for rejection of the full piece.

- i) mill creases/calendar marks
- ii) edge to edge shading
- iii) staining
- iv) tears, holes or marks beyond 12mm from the outer edges of the selvedge
- v) weak or tender fabric
- vi) more than 10 defects or 2 major defects per 100 linear metres

4.4 **Piece Marking** - Each piece must have a ticket attached to the selvedge at one end. The ticket must be made of heavy cardboard with a reinforced eyelet for attaching a cord or bar coded ticket. Another identical label must be attached or stick to the outside of the wrapping. Both tickets must be legibly printed with the following information:

- i) Cloth, Wool, Superfine
- ii) Contract Number
- ii) RCMP Stock Number 8703 000
- iv) Lot Number
- v) Piece Number
- vi) Colour
- vii) Gross Total (including allowance)
- viii) Net Total (excluding allowance)
- ix) Date of Manufacture
- x) Manufacturer's Identification

5. **Quality Assurance Provisions**

- 5.1 **Responsibility for Inspection** – Unless otherwise stipulated in the Contract, it is the Contractor's responsibility to satisfy the RCMP, Uniform and Equipment Program that the components and material being supplied conform to this specification. This may be accomplished by performing the tests specified in this specification or by demonstrating to the satisfaction of the RCMP, Uniform and Equipment Program that conformity to this specification of manufacturing processes is assured. The Contractor must use an independent commercial testing establishment.
- 5.2 The RCMP, Uniform and Equipment Program reserves the right to perform any inspection considered necessary to ensure the material and services conform to the specified requirements. For the purpose of inspection, a portion of each delivery not exceeding two percent or two out of any number delivered under 100 may be put to tests that could destroy the articles. If found to be inferior or not in accordance with this specification, all articles so destroyed must be replaced by others of proper quality and pattern at the expense of the Contractor. The entire delivery may also be rejected if it is found that articles previously rejected due to non-repairable defects are redelivered for inspection.
- 5.3 The Contractor will be promptly notified when any articles are not accepted and such articles will be returned at the contractor's risk and expense.

TABLE I

REQUIREMENT				TEST METHODS
1	Colour	Yellow, to match swatch available from RCMP Uniform & Equipment Program		
2	Fibre Content	100% 2-ply Wool		<ul style="list-style-type: none">CAN/CGSB-4.2 No. 14-2005
3	Weave	Plain Weave		<ul style="list-style-type: none">Visual
4	Mass	373 g/m ² ± 18 g/m ²		<ul style="list-style-type: none">CAN/CGSB-4.2 No. 5.1-M90 (R2013) OR <ul style="list-style-type: none">ASTM D3776/D3776M-09a (R2013)
5	Width	140 cm (min.)		<ul style="list-style-type: none">ISO 22198:2006
6	Yarns per cm	Warp:	17.5 min.	<ul style="list-style-type: none">CAN/CGSB-4.2 No. 6-2013 OR <ul style="list-style-type: none">ISO 7211-2:1984
		Weft:	13.8 min.	
7	Breaking Strength - — Strip method — Constant time- to-break principle	Warp:	250 N min	<ul style="list-style-type: none">CAN/CGSB-4.2 No. 9.1-M90 (R2013)
		Weft:	140 N min	
8	Dimensional Change in Wetting (Tension Pressing at 150°C)	Warp:	3.0% max	<ul style="list-style-type: none">CAN/CGSB-4.2 No. 25.1-97 (R2013)
		Weft:	3.0% max	
9	Dimensional Change in Pressing (Open head steaming)	Warp:	3.0% max	<ul style="list-style-type: none">CAN/CGSB-4.2 No. 25.2-M89 (R2013)
		Weft:	3.0% max	
10	Crease Recovery	Warp - Face Inside	75% minimum	<ul style="list-style-type: none">CAN/CGSB-4.2 No. 45-M88 (R2013)
		Warp - Face Outside	75% minimum	
		Weft - Face Inside	75% minimum	
		Weft - Face Outside	75% minimum	
11	Pilling	after 120 min. - no less than 4		<ul style="list-style-type: none">ASTM D3512/D3512M-16
12	Colourfastness - To Light – Xenon Arc Method	Gray Scale 4 or better, when compared to an unexposed swatch of the same fabric		<ul style="list-style-type: none">ISO 105-B02:2014, Method 5 Exposure B, 160 hours
13	Colourfastness - To Crocking	Dry:	Gray Scale 4 or better	<ul style="list-style-type: none">CAN/CGSB-4.2 No. 22-2004 (R2013) OR <ul style="list-style-type: none">ISO 105-X12:2016
		Wet:	Gray Scale 4 or better	
14	Colourfastness - To Perspiration (Acid & Alkaline)	Acid	Colour Change: Gray Scale 4 or better Staining (<u>All Fibres</u>): Gray Scale 4 or better	<ul style="list-style-type: none">CAN/CGSB-4.2 No. 23-M90 (R2013) OR <ul style="list-style-type: none">ISO 105-E04:2013
		Alkaline	Colour Change: Gray Scale 4 or better Staining (<u>All Fibres</u>): Gray Scale 4 or better	

REQUIREMENT				TEST METHODS
15	Colourfastness - To Dry Cleaning	Colour Change:	Gray Scale 4 or better	<ul style="list-style-type: none"> AATCC 132-2013
		Staining (<u>All Fibres except Polyester</u>):	Gray Scale 4-5 or better	
		Staining (<u>Polyester</u>):	Gray Scale 4 or better	

APPENDIX A**INSPECTION REPORT/ RAPPORT D'INSPECTION**

Contract No.		Specification No. & Date	RCMP-GRC G.S. 1045-278, 2021-02-23
Date:		Inspector:	
Style:		Lot number:	
Colour:			

Piece #	Piece Length Gross Metres	Piece Length Net Metres	Total Defects	Knot/Slub < 7.5 cm (MINOR)	Broken Warp >7.5 cm, <15.2 cm (MINOR)	Broken Weft >7.5 cm, <15.2 cm (MINOR)	Defects > 15.2 cm, < 20 cm (MINOR)	Stop mark Mispick/ seams/splices (MAJOR)	Dyeing Defects			Others	Cutttable width
									Spots/ Stains (MINOR)	Dust Patches > 20 cm, < 50 cm (MINOR)	Dust Patches > 20 cm, < 50 cm (MAJOR)		
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APPENDIX A continued
INSPECTION REPORT/ RAPPORT D'INSPECTION

Contract No.		Specification No. & Date	RCMP-GRC G.S. 1045-278, 2021-02-23
Date:		Inspector:	
Style:		Lot number:	
Colour:			

DEFECT/ FAULT MAP

Piece Number:		
Piece Length (Gross Metres):		Piece Length (Net Metres):
Position in metres:	Description of Defect	
*List the position of the defect and the type of defect in terms of where the defect is located in metres from the beginning of the roll.		