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CANCELLATION  
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CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification  
for

LEATHER: LINING, VEGETABLE TANNED,  
EAST INDIA GOATSKINS

This specification is cancelled as of the above date because it is no longer being used for government purchasing.



# CANADIAN GOVERNMENT SPECIFICATIONS BOARD

SPECIFICATION

FOR

LEATHER; LINING, VEGETABLE TANNED  
EAST INDIA GOATSKINS

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1 FEBRUARY 1952

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THIS SPECIFICATION APPLIES TO LEATHER FROM  
EAST INDIA VEGETABLE TANNED GOATSKINS

NATIONAL RESEARCH COUNCIL, OTTAWA, CANADA

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CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification  
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LEATHER; LINING, VEGETABLE TANNED,  
EAST INDIA GOATSKINS

1. DEFINITION

1.1 This specification applies to leather from East India Vegetable Tanned Goatskins.

2. APPLICABLE REGULATIONS

2.1 In the event of any inconsistency in contract documents, specification, drawings, and/or patterns, the aforementioned shall prevail in the following manner:-

- 2.1.1 Contract
- 2.1.2 Specification
- 2.1.3 Drawings
- 2.1.4 Pattern or sealed sample.

3. GENERAL REQUIREMENTS

3.1 The article or material covered by this specification shall be free from imperfections or blemishes such as may affect its appearance or serviceability, and in all respects not covered by the present specification or contract documents, shall be equivalent to the sealed sample.

3.2 Finish - The leather shall be grain leather with the flesh side smooth and free from loose flesh. It shall be free from pokha holes, cuts and open surface blemishes and shall be mellow, yet tight-fibred. Loose or pipy leather shall not be permitted. The leather shall contain fast dyes and must contain no pigment.

4. DETAIL REQUIREMENTS

4.1 Thickness - The leather shall be available in thicknesses from  $2\frac{1}{2}$  to 3 oz.

4.2 Chemical Requirements - (Moisture Free Basis)

|                                  | <u>Min.</u> | <u>Max.</u> |
|----------------------------------|-------------|-------------|
| Water Solubles, percent          | -           | 10          |
| Hide Substance, percent          | 45          | 55          |
| Petroleum Ether Extract, percent | 4           | 10          |
| Insoluble Ash, percent           | -           | 0.75        |
| Degree of Tannage                | 50          | 75          |
| Total Ash, percent               | -           | 1.5         |
| Acidity, (pH)                    | 3.0         | -           |

| 4.3 | <u>Physical Requirements</u>                                                           | <u>Min.</u> | <u>Max.</u> |
|-----|----------------------------------------------------------------------------------------|-------------|-------------|
|     | Tensile Strength, lb/sq. in.                                                           | 2500        | -           |
|     | Stitch Tear, lb.                                                                       | 40          | -           |
|     | (Method E - Stitch Tear for<br>Light Leather - wire pulled<br>through from grain side) |             |             |
|     | Elongation, percent, at 2000 lb/<br>sq. in.                                            | -           | 25          |

#### 4.4 Fungi Resistance

4.4.1 The leather shall not support fungi growth when tested in accordance with the prescribed method.

4.4.2 The leather shall pass the test for resistance to athlete's foot organisms, Appendix A.

4.4.3 Fungicides used to promote fungi resistance in the leather shall be effective and non-toxic. Fungicides satisfactorily fulfilling the requirements of effectiveness and non-toxicity are listed in Appendix B.

4.4.4 The amount of fungicides used to promote fungi resistance shall not be less than 0.25% nor more than 0.50% of the dry weight of the finished leather.

### 5. INSPECTION, SAMPLING AND TEST METHODS

5.1 Inspection for Defects - The leather shall be inspected for defects and the acceptability of areas containing defects shall be governed by the following classification:

| <u>Class of Defect</u>                                              | <u>Acceptable</u>     | <u>Not Acceptable</u>                                   |
|---------------------------------------------------------------------|-----------------------|---------------------------------------------------------|
| Fibre Quality                                                       | tight fibre           | loose fibre                                             |
| Brier Scratches                                                     | healed scratches only | open brier scratches                                    |
| Fat Wrinkles                                                        | medium wrinkles       | heavy wrinkles                                          |
| Fly Bites                                                           | minor bites           | deep open bites                                         |
| Grain Damage                                                        | slight grain damage   | deep grain cuts,<br>or extensive grain<br>damage.       |
| Appearance (Salt stains,<br>unremoved hair, and dis-<br>coloration) | -                     | stains, unremoved<br>hair, or serious<br>discoloration. |
| Slaughter Cuts                                                      | slight slaughter cuts | deep slaughter cuts                                     |
| Fleshiness                                                          | clear                 | excessively fleshy                                      |
| Tannage                                                             | fully tanned          | incomplete tannage<br>(any visible raw<br>streaks)      |

5.2 Methods of sampling and testing, with the exception of the test method described in Appendix A, shall be in accordance with the "Methods of Sampling and Analysis" of the American Leather Chemists Association.

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Correspondence regarding this specification should be addressed to the Secretary, Canadian Government Specifications Board, National Research Council, Ottawa, Canada.

## APPENDIX A

### Test for Resistance to Athlete's Foot Organisms

1. **Test Organisms:** The organisms used shall be Tricophyton Mentagrophytes No. 9533 and Tricophyton Mentagrophytes No. 9972, as found in the following culture collection, from which these organisms may be obtained:

American Type Culture Collection,  
2029 M. Street, N.W.,  
Washington 6, D.C.

2. **Test Medium:** The medium is made up and autoclaved approximately 100 grams to a flask, at 15 pounds pressure for 20 minutes. Prior to the test the flask is placed in boiling water until the contents of the flask have melted. The contents of the flask are then poured into Petri dishes each of which shall contain about 20 cc. The medium used in the test procedure shall contain the following ingredients.

|                           |          |
|---------------------------|----------|
| Distilled water           | 1000 ml. |
| Dextrose (American Crude) | 40 gm.   |
| Peptone                   | 10 gm.   |
| Agar                      | 18 gm.   |

The commercial agar preparation known as Sabouraud Dextrose Agar, manufactured by Difco Laboratories, Detroit, Michigan, U.S.A., or other similar preparations, may be used.

3. **Spore Suspension:** The spore suspension is made by adding approximately 10 cc. of physiological saline or sterilized distilled water to each tube of organism and washing the spores off the slant.

4. **Test Specimens:** A piece of leather for test, 5.1 x 5.1 cm. (2 x 2 inches), is soaked by drumming in a shake bottle in 20 times its weight of distilled water for 3 hours. Four test specimens 2.5 cm., (1 inch) square, are cut from the soaked leather for use with each organism.

5. **Test Procedure:** 0.8 cc. of the spore suspension is added to the surface of the Agar in the Petri dish and the Petri dish tilted to insure moistening of its entire surface. The specimens of the test material are then deposited directly on the centre of the Petri dish and 0.2 cc. of the spore suspension are added to the surface of the specimen in such a way that it is completely covered by this suspension. This may be done by laying a thin glass cover slip on the surface of the wetted specimen. After removal of the cover glass, the petri dish is incubated at a temperature of +25 to +30°C. (+77 to 86°F), and at a relative humidity of not less than 95 percent, for a period of 5 days. The specimen shall pass the test if graded good or excellent when observations are made microscopically, as follows:

| <u>Grade</u> | <u>Area of Inhibition</u>                                      |
|--------------|----------------------------------------------------------------|
| Excellent    | Over 1/2" from specimen                                        |
| Good         | 1/2" or less, but fungi do not touch the edge of the specimen. |
| Fair         | Fungi touch the edge of the specimen                           |
| Poor         | Fungi on specimen                                              |

APPENDIX B

List of Fungicides Approved as Effective and Non-Toxic

Pentachlorophenol  
Para-nitrophenol  
2,4,5 - trichlorophenol  
Para-chloro-meta-xyleneol  
2 - mercaptobenzothiazole

Fungicides not included in the above list may be submitted for approval and, subject to such approval, will be added to the list.

Withdrawn/Retired