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Series 139

Série des 139

WITHDRAWAL

March 2012

Standards in series Feathers and down

This CGSB standard and these National Standards of Canada are hereby withdrawn due to limited use and support for their revision. This withdrawal notice removes all remaining standards in the series.

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RETRAIT

Mars 2012

Normes de la série Plumes et duvet

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CAN/CGSB-139.1-M86

Feathers and Down — Terminology and Characteristics (ICS 59.040)

CAN/CGSB-139.2-M86

Determination of Composition of Mixtures of Feathers and Down, by Manual Sorting (ICS 59.040)

CAN/CGSB-139.3-M90

Determination of Cleanliness of Plumage by Oxygen Number (ICS 59.040)

139-GP-4M (Mar 1984)

Determination of Composition of Mixtures of Feathers and Down, by Mechanical Sorting (ICS 59.040)

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CAN/CGSB-139.1-M86

Terminologie et caractéristiques des plumes et du duvet (ICS 59.040)

CAN/CGSB-139.2-M86

Détermination de la composition des mélanges de plumes et de duvet par triage manuel (ICS 59.040)

CAN/CGSB-139.3-M90

Détermination de la propreté des plumes par l'indice d'oxygène (ICS 59.040)

139-GP-4M (mars 1984)

Détermination par tri mécanique de la composition des mélanges de plumes et de duvet (ICS 59.040)

NATIONAL STANDARD OF CANADA

CAN/CGSB-139.3-M90

Supersedes 139-GP-3M

Determination of Cleanliness of Plumage by Oxygen Number



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DETERMINATION OF CLEANLINESS OF PLUMAGE BY OXYGEN NUMBER

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Acknowledgment is made for the French translation of this National Standard of Canada by the Translation Bureau of the Department of the Secretary of State.

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CANADIAN GENERAL STANDARDS BOARD

DETERMINATION OF CLEANLINESS OF PLUMAGE BY OXYGEN NUMBER

1. SCOPE

1.1 This standard is a procedure for assessing the cleanliness of plumage by the oxygen number, which reflects the oxidizable matter content.

1.2 This procedure covers only the cleanliness of plumage as determined by oxygen number and does not relate to any other aspect of its cleanliness, such as non-oxidizable material.

1.3 The testing and evaluation of a product against this standard may require the use of materials and/or equipment that could be hazardous. This document does not purport to address all the safety aspects associated with its use. Anyone using this standard has the responsibility to consult the appropriate authorities and to establish appropriate health and safety practices in conjunction with any existing applicable regulatory requirements prior to its use.

2. PRINCIPLE

2.1 The plumage is immersed in distilled water and the wash liquor titrated against 0.02 mol/L potassium permanganate. The cleanliness of the plumage is then assessed by calculating the oxygen number.

2.2 Two alternative methods of agitation are provided. In cases of dispute the mechanical agitation procedure shall be used.

3. APPLICABLE PUBLICATIONS

3.1 The following publications are applicable to this standard:

3.1.1 Canadian General Standards Board (CGSB)

CAN/CGSB-8.2-M — Sieves, Testing, Woven Wire, Metric

CAN/CGSB-139.1-M — Feathers and Down — Terminology and Characteristics.

3.2 Reference to the above publications is to the latest issues unless otherwise specified by the authority applying this standard. The source for these publications is shown in the Notes section.

4. TERMINOLOGY

4.1 The terminology stated in CAN/CGSB-139.1-M shall apply in this standard.

5. REAGENTS

Potassium permanganate, 0.02 mol/L

Sulphuric acid, 3 mol/L

Distilled water.

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6. APPARATUS

6.1 **For Mechanical Agitation**

6.1.1 Dry-cleaning machine or similar device for rotating closed containers (Note 1).

6.1.2 Container, sealable stainless steel or glass that will accommodate 1 L of water and 10 g of plumage (Note 2).

6.2 **For Manual Agitation**

6.2.1 Preserving Jar with cover, 2 to 2.5 L size

6.3 **Analytical balance**

6.4 **Stop watch**

6.5 **Sieve,** 500 µm (CAN/CGSB-8.2-M)

6.6 **Beaker,** 2 L

6.7 **Conical flasks,** 4, minimum capacity 250 mL

6.8 **Micro-burette,** 5 mL

6.9 **Graduated cylinder** of 1 L capacity.

7. TEST SPECIMEN

7.1 From a sample-mixing container remove one specimen, representative of the sample. This specimen should have a mass of 10 ± 0.1 g.

8. PROCEDURE

8.1 **With Mechanical Agitation**

8.1.1 Place the test specimen in the container (par. 6.1.2) and add 1 L of distilled water at room temperature.

8.1.2 Seal the container and place in the agitation apparatus (dry-cleaning apparatus).

8.1.3 Agitate the container for 30 min (1350 cycles).

8.2 **With Manual Agitation**

8.2.1 Place the test specimen in the mason jar and add 1 L of distilled water at room temperature.

8.2.2 Agitate the jar and contents until the plumage is thoroughly saturated. Let stand at 25 – 30°C for 1 h with periodic agitation.

8.3 Remove the container and strain its contents through a 500 µm sieve into a beaker. Do not squeeze the excess water from the plumage.

8.4 Transfer three 200 mL aliquots of the strained liquor into three separate conical flasks.

8.5 Add 2 mL of 3 mol/L sulphuric acid to each aliquot.

NOTE 1: A suitable dry-cleaning machine may be obtained from U.S. Testing Co., Hoboken, N.J., U.S.A.; Canadian Supplier – Testing Machines International of Canada Ltd., 6 Ronald Drive, Montreal West, Quebec H4X 1M8. The dry-cleaning machine consists of a stainless steel tumbler that rotates on an axis 50° off centre at a speed of 45 r/min.

NOTE 2: The dry-cleaning machine uses a stainless steel container approximately 235 mm *diameter and* 360 mm *long.*

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8.6 Titrate each aliquot with 0.02 mol/L potassium permanganate. The potassium permanganate is added in 0.02 mL quantities at 1 min intervals until a faint colour persists for 1 min.

8.7 To 200 mL of distilled water add 2 mL of 3 mol/L sulphuric acid. Titrate as in par. 8.6. This is the water blank titration.

9. CALCULATION

9.1 Calculate the oxygen number for each of the three aliquots as follows:

$$A = B \times 40 - C \times 40$$

where: A = Oxygen number
B = millilitres of potassium permanganate (par. 8.6)
C = millilitres of potassium permanganate from water blank (par. 8.7).

10. REPORT

10.1 Report the following:

a. The average oxygen number of the plumage sample

b. The type of agitation used

c. The number of this standard: CAN/CGSB-139.3-M90.

11. NOTE

11.1 **Source of Referenced Publications** — The publications referred to in par. 3.1.1 may be obtained from the Canadian General Standards Board, Sales Unit, Ottawa, Canada K1A 1G6. Telephone (819) 956-0425 or 956-0426. Telefax (819) 956-5644.

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