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Canadian General
Standards Board

Office des normes
générales du Canada

Series 1
Série des 1

WITHDRAWAL

November 2015

Selected standards in the series Paints, pigments and related products

These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.

The Standards Council of Canada requires that accredited Standards Development Organizations, such as the CGSB, regularly review a consensus Standard to determine whether to re-approve, revise or withdraw. The review cycle is normally five years from the publication date of the latest edition of the Standard.

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RETRAIT

Novembre 2015

Sélection de normes de la série Peintures, pigments et produits connexes

Ces Normes nationales du Canada sont retirées par le présent avis en raison de leur utilisation limitée et du manque de support pour leur révision.

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CAN/CGSB-1.2-98

Boiled Linseed Oil (ICS 87.040)

CAN/CGSB-1.4-2000

Petroleum Spirits Thinner (ICS 87.040)

CAN/CGSB-1.70-99

High-Solvency Thinner (ICS 87.040)

CAN/CGSB-1.110-M91

General Purpose Thinner for Lacquers (ICS 87.040)

CAN/CGSB-1.124-99

Thinner for Vinyl Coatings (ICS 87.040)

CAN/CGSB-1.136-92

Antiblush Thinner for Cellulose Nitrate Lacquer (ICS 87.040)

CAN/CGSB-1.164-99

Solvent for Vinyl Pretreatment Coating (ICS 87.040)

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CAN/CGSB-1.2-98

Huile de lin cuite (ICS 87.040)

CAN/CGSB-1.4-2000

Diluant, essence minérale (ICS 87.040)

CAN/CGSB-1.70-99

Diluant à pouvoir solvant élevé (ICS 87.040)

CAN/CGSB-1.110-M91

Diluant d'usage général, pour produits-laque (ICS 87.040)

CAN/CGSB-1.124-99

Diluant pour revêtements aux résines vinyliques (ICS 87.040)

CAN/CGSB-1.136-92

Diluant antiopalescent pour produit-laque nitrocellulosique (ICS 87.040)

CAN/CGSB-1.164-99

Solvant pour peinture primaire réactive vinylique (ICS 87.040)

NATIONAL STANDARD OF CANADA

CAN/CGSB-1.136-92

Supersedes 1-GP-136M

**Antiblush Thinner
for Cellulose
Nitrate Lacquer**



QUALITY

Withdrawn/Retired

Canadian General Standards Board

CGSB

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The principal objectives of the Council are to foster and promote voluntary standardization as a means of advancing the national economy, benefiting the health, safety and welfare of the public, assisting and protecting the consumer, facilitating domestic and international trade, and furthering international co-operation in the field of standards.

A National Standard of Canada is a standard which has been approved by the Standards Council of Canada and one which reflects a reasonable agreement among the views of a number of capable individuals whose collective interests provide, to the greatest practicable extent, a balance of representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject in hand. It normally is a standard that is capable of making a significant and timely contribution to the national interest.

Approval of a standard as a National Standard of Canada indicates that a standard conforms to the criteria and procedures established by the Standards Council of Canada. Approval does not refer to the technical content of the standard; this remains the continuing responsibility of the accredited standards-writing organization.

Those who have a need to apply standards are encouraged to use National Standards of Canada whenever practicable. These standards are subject to periodic review; therefore, users are cautioned to obtain the latest edition from the organization preparing the standard.

The responsibility for approving National Standards of Canada rests with the:

Standards Council of Canada
45 O'Connor Street
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Ottawa, Ontario

ANTIBLUSH THINNER FOR CELLULOSE NITRATE LACQUER

This new edition supersedes CGSB standard 1-GP-136M, August 1980. Technical changes include platinum cobalt colour requirement and ASTM D 3278 as an alternative test method.

Prepared by the

Canadian General Standards Board 

Approved by the

Standards Council of Canada



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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.

CANADIAN GENERAL STANDARDS BOARD

ANTIBLUSH THINNER FOR CELLULOSE NITRATE LACQUER

1. SCOPE

- 1.1 This standard applies to a thinner that slows the drying of cellulose nitrate lacquers to prevent blushing under conditions of high relative humidity and temperature.
- 1.2 For more detailed information on intended uses, see par. 8.2.
- 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. APPLICABLE PUBLICATIONS

- 2.1 The following publications are applicable to this standard:
- 2.1.1 Canadian General Standards Board (CGSB)
1-GP-71 — Methods of Testing Paints and Pigments
1-GP-110 — Thinner, General Purpose, for Lacquers
CAN/CGSB-1.132 — Primer, Zinc Chromate, Low Moisture Sensitivity
1-GP-134 — Lacquer, Cellulose Nitrate, Gloss, for Aircraft.
- 2.1.2 Department of Consumer and Corporate Affairs
Hazardous Products Act.
- 2.1.3 ASTM
D 86 — Method for Distillation of Petroleum Products
D 130 — Method for Detection of Copper Corrosion from Petroleum Products by the Copper Strip Tarnish Test
D 156 — Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method)
D 1364 — Test Method for Water in Volatile Solvents (Fischer Reagent Titration Method)
D 1613 — Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products
D 3278 — Test Methods for Flash Point of Liquids by Setaflash-Closed-Cup Apparatus.
- 2.2 Reference to the publications in par. 2.1.1, 2.1.3 and other related publications is to the latest issues, unless otherwise specified by the authority applying this standard. The sources of all publications are shown in the Notes section.

3. TERMINOLOGY

Blushing — Blushing is defined in Section 6, Glossary of Paint Terms, of CGSB standard 1-GP-72 as: A milky opalescence that sometimes develops within the top layer of a film of lacquer as it dries, due to the deposition of moisture from the air. It is related to solvent evaporation and relative humidity, and cannot be removed by wiping.

4. GENERAL REQUIREMENTS

- 4.1 The thinner shall be a clear, colourless transparent liquid, free from water, visible impurities or adulterants.

5. DETAILED REQUIREMENTS

Thinner to this standard shall comply with the following detailed requirements when tested in accordance with the specified test methods:

		Min.	Max.	Test Method	
				CGSB 1-GP-71	ASTM
5.1	Colour, Saybolt units	+25	—	—	D 156*
	Platinum cobalt	—	25	—	—
5.2	Evaporation residue, g/100 mL	—	0.005	20.1	—
5.3	Water content, % by mass	—	0.2	—	D 1364
5.4	Solvent power, mL	37	—	26.1	—
5.5	Acidity, as KOH mg/ml	—	0.2	—	D 1613
5.6	Benzene, % by volume	—	0.5	28.5	—
5.7	Sulfur (copper strip corrosion) after 3 h at 100°C	—	No. 1	—	D 130
5.8	Chlorinated compounds	—	Nil	73.1	—
5.9	Effect on Rate of Drying — The addition of one volume of thinner to two volumes of lacquer conforming to CGSB standard 1-GP-134 shall not increase the drying time of the lacquer to more than 40 min (par. 7.2).				
5.10	Distillation — The thinner shall meet the following distillation requirements when tested in accordance with ASTM D 86:				
		Min.	Max.		
	Initial boiling point, °C	110	—		
	90% point, °C	130	135		
	Final boiling point, °C	170	205		
5.11	Resistance to Blushing — No whitening due to blushing shall occur when a film prepared from a mixture of 2 volumes of standard test lacquer (CGSB 1-GP-71, Method 150.4) and 1 volume of the thinner is allowed to dry in an atmosphere at 35°C and 92% RH and tested in accordance with CGSB standard 1-GP-71, Method 38.3.				
5.12	Print Resistance — When a film prepared from a mixture of 2 volumes of standard test lacquer (CGSB 1-GP-71, Method 150.4) and 1 volume of thinner applied over primer conforming to CAN/CGSB-1.132 is subjected to the print resistance test using a pressure of 7 kPa for 1 h at 23°C, the film shall show no imprint 2 h after the removal of the fabric when tested in accordance with CGSB standard 1-GP-71, Method 142.1.				

6. PREPARATION FOR DELIVERY

- 6.1 Unless otherwise specified (par. 7.1), preparation for delivery shall conform to normal commercial practice.
- 6.2 **Labelling** — In addition to complying with the labelling requirements of any relevant Acts or Regulations, each container shall be suitably labelled to show the following information:

Name of material

Standard number: CAN/CGSB-1.136-92

Manufacturer's name and address

* The Setaflash tester (ASTM D 3278) may be used as an alternative. However, in the event of dispute, the Tag Closed Cup method shall be the referee method.

Manufacturer's batch number

Manufacturer's code number

Date of manufacture.

- 6.3 **Toxic Elements** — This material shall be labelled to conform to the requirements of the Hazardous Products Act in respect to designated toxic elements.

7. INSPECTION

- 7.1 **Sampling** — Sampling shall be carried out in accordance with CGSB standard 1-GP-71, Method 1.1.

7.2 Testing

- 7.2.1 **Effect on Rate of Drying** — Add the thinner to lacquer conforming to CGSB standard 1-GP-134 in the ratio of one volume of thinner to two volumes of lacquer. Determine the hard dry time of the thinned lacquer in accordance with CGSB standard 1-GP-71, Method 5.1.

8. NOTES

- 8.1 **Option** — The following option must be specified in the application of this standard:

a. Preparation for delivery, if other than as specified (par. 6.1).

8.2 Intended Uses

- 8.2.1 Thinner to this standard is normally added to thinner conforming to CGSB standard 1-GP-110 for lacquer finishes in the proportion of 10 to 15%, or in amounts sufficient to slow the evaporation enough to prevent blushing.

- 8.2.2 Thinner to this standard should not be used if thinner conforming to CGSB standard 1-GP-110 gives satisfactory results with no blushing.

- 8.2.3 Thinner to this standard may be injurious to the operator and should therefore be used with adequate ventilation.

8.3 Related Publication

- 8.3.1 U.S. Military Specification

MIL-T-6095 — Thinner, Cellulose-Nitrate-Dope and Lacquer, Blush Retarding.

8.4 Sources of Referenced Publications

- 8.4.1 The publications referred to in par. 2.1.1 and 8.2 may be obtained from the Canadian General Standards Board, Sales Centre, Ottawa, Canada K1A 1G6. Telephone (613) 941-8703 or 941-8704. Fax (613) 941-8705.

- 8.4.2 The publications referred to in par. 2.1.2 may be obtained from the Canada Communication Group, Publishing, Ottawa, K1A 0S9. Telephone (819) 956-4802.

- 8.4.3 The publications referred to in par. 2.1.3 may be obtained from ASTM, 1916 Race Street, Philadelphia, PA 19103, U.S.A. or from the Standards Council of Canada, Standards Sales Branch, 45 O'Connor Street, Suite 1200, Ottawa, Ontario K1P 6N7.

- 8.4.4 The publication referred to in par. 8.3.1 may be obtained from the Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120, U.S.A.



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