



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These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.

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RETRAIT

Novembre 2015

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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

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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)



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CAN/CGSB-1.2-98

Boiled Linseed Oil

National Standard of Canada

Canada



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BOILED LINSEED OIL

Prepared by the
Canadian General Standards Board 

Approved by the
Standards Council of Canada 

Published August 1998 by the
Canadian General Standards Board
Ottawa, Canada K1A 1G6

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Acknowledgment is made for the translation of this National Standard of Canada by the Translation Bureau of Public Works and Government Services Canada.

CANADIAN GENERAL STANDARDS BOARD

BOILED LINSEED OIL

1. SCOPE

- 1.1 This standard applies to boiled linseed oil, obtained by treating raw linseed oil with heat or suitable driers.
- 1.2 Boiled linseed oil may be used in the manufacture of primers, varnishes, putty and other protective coating materials. It can also be used for certain specialized applications such as lubricating metal anchor chains to prevent corrosion.
- 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 applicable regulatory requirements prior to its use.

2. REFERENCED PUBLICATIONS

- 2.1 The following publications are referenced in this standard:
- 2.1.1 Canadian General Standards Board (CGSB)
1-GP-71 — Methods of Testing Paints and Pigments.
- 2.1.2 Health Canada
Hazardous Products (Liquid Coating Materials) Regulations.
- 2.1.3 American Society for Testing and Materials (ASTM)
D 1544 — Test Method for Color of Transparent Liquids (Gardner Color Scale)
D 1639 — Test Method for Acid Value of Organic Coating Materials
D 1951 — Test Method for Ash in Drying Oils and Fatty Acids
D 1959 — Test Method for Iodine Value of Drying Oils and Fatty Acids
D 1960 — Test Method for Loss on Heating of Drying Oils
D 1962 — Test Method for Saponification Value of Drying Oils, Fatty Acids and Polymerized Fatty Acids
D 1965 — Test Method for Unsaponifiable Matter in Drying Oils, Fatty Acids and Polymerized Fatty Acids.
- 2.2 A reference to a regulation is always to the latest issue. A dated reference is to the issue specified. An undated reference is to the latest issue, unless otherwise specified by the authority applying this standard. The sources are given in the Notes section.

3. GENERAL REQUIREMENTS

- 3.1 The linseed oil shall be clear, and free from water, sediment or suspended matter.
- 3.2 **Toxic Elements** — The linseed oil shall be manufactured in accordance with the requirements of the *Hazardous Products Regulations* (Liquid Coating Materials) for designated toxic elements.

4. DETAILED REQUIREMENTS

The linseed oil shall comply with the following detailed requirements when tested in accordance with the specified test methods:

					Test Method
		Min.	Max.	CGSB 1-GP-71	ASTM
4.1	Relative density (at 25°C)	0.928	0.938	2.2	—
4.2	Drying time, surface dry, h	—	18	5 ¹ Method A	—
4.3	Colour, Gardner	—	15	—	D 1544
4.4	Volatile matter, % by mass	—	0.3	—	D 1960
4.5	Acid number	—	7.5	—	D 1639
4.6	Saponification number	185	195	—	D 1962
4.7	Unsaponifiable matter, % by mass	—	2.0	—	D 1965
4.8	Iodine number (Wijs)	170	—	—	D 1959
4.9	Ash, %	—	0.5	—	D 1951
4.10	Clarity and Appearance — After heating 5 min at 65°C and examining within 1 h after returning to 25 ± 2°C, the oil shall be clear and transparent when examined through a 25 mm diameter glass cell, and shall be free from sediment and other visible impurities.				

5. PREPARATION FOR DELIVERY

5.1 Unless otherwise specified (par 7.1), preparation for delivery shall conform to normal commercial practice.

5.2 **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-1.2-98

Manufacturer's name and address

Manufacturer's batch number

Manufacturer's code number

Date of manufacture.

6. INSPECTION

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

7. NOTES

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

a. Preparation for delivery, if other than as specified (par. 5.1).

7.2 Related Publications

7.2.1 American Society for Testing and Materials (ASTM)

D 260 — Specification for Boiled Linseed Oil, Type 1.

¹Use a dry film thickness of 25 µm.

- 7.2.2 U.S. Federal Specification
A-A-371 — Linseed Oil, Boiled, for Use in Organic Coatings.

7.3 **Sources of Referenced Publications**

- 7.3.1 The publication referred to in par. 2.1.1 may be obtained from the Canadian General Standards Board, Sales Centre, Ottawa, Canada K1A 1G6. Telephone (819) 956-0425 or 1-800-665-CGSB (Canada only). Fax (613) 941-8705.
- 7.3.2 The publication referred to in par. 2.1.2 may be obtained from Health Canada, Product Safety Bureau, Statistics Canada Main Building, Room 1000, Tunneys Pasture, Ottawa, Canada. Telephone (613) 952-9191. Fax (613) 952-1994.
- 7.3.3 The publications referred to in par. 2.1.3 and 7.2.1 may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, U.S.A. or from the Global Info Centre Canada, 240 Catherine Street, suite 305, Ottawa, Canada K2P 2G8. Telephone (613) 237-4250 or (800) 854-7179. Fax (613) 237-4251.
- 7.3.4 The publication referred to in par. 7.2.2 may be obtained from The Naval and Publications Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120, U.S.A.