



1-GP-50e
12 November 1968

(F)1-GP-50e
12 novembre 1968

CANCELLATION

April 1982

CANADIAN GENERAL
STANDARDS BOARD

Specification for

THINNER: ESTER TYPE,
FOR LACQUER FINISHES

This standard is hereby cancelled. In its place use 1-GP-110M, Thinner, General-Purpose, for Lacquers. 1-GP-110M Ketone thinner has no apparent disadvantages compared to the 1-GP-50e thinner. However it is cheaper and has equal solvency properties.

ANNULATION

Avril 1982

OFFICE DES NORMES
GÉNÉRALES DU CANADA

Norme

DILUANT, TYPE ESTER,
POUR PEINTURES-LAQUE DE
FINITION

Cette norme est annulée par la présente. À la place, il faut utiliser désormais la norme 1-GP-110M, Diluant d'usage général, pour produits-laque. Ce diluant à base de cétone ne laisse paraître aucun désavantage par rapport au diluant 1-GP-50e. Toutefois, il est plus économique et son pouvoir solvant est équivalent.



CANADIAN GOVERNMENT SPECIFICATIONS BOARD

~~275~~
175

SPECIFICATION

FOR

THINNER: ESTER TYPE, FOR LACQUER FINISHES

1-GP-50e

12 NOVEMBER 1968

SUPERSEDES 1-GP-50D

10 MARCH 1961

THIS SPECIFICATION HAS BEEN PREPARED BY A GOVERNMENT — INDUSTRY COMMITTEE TO COMPLY WITH THE SPECIFIC REQUIREMENTS OF THE FEDERAL GOVERNMENT. IT IS INTENDED FOR USE IN A PROCUREMENT SYSTEM THAT INCLUDES INSPECTION PROCEDURES TO ENSURE COMPLIANCE WITH THE REQUIREMENTS OF THE SPECIFICATION AND ITS USE WITHOUT SUCH INSPECTION PROCEDURES MAY NOT BE ADVISABLE.

THIS SPECIFICATION APPLIES TO A MIXTURE OF ORGANIC LIQUIDS IN WHICH THE ACTIVE SOLVENT PORTION FOR THE LACQUER SHALL BE OF THE ESTER TYPE.

DEPARTMENT OF DEFENCE PRODUCTION, OTTAWA, CANADA

COMMITTEE ON PAINTS, PIGMENTS AND RELATED COMMODITIES
and

Aeronautical, Equipment and Ammunition Subcommittee

(Membership at date of approval by the Committee)

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Ashton, H. E.	National Research Council
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Conley, R. J.	Department of National Defence
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Harrington, J. M.	Department of Rural Development and Forestry
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Horrocks, D.	Mobil Paint Company
Hughes, L.	Interchem of Canada Limited
Kelly, B. W.	Department of National Defence
Krayer-Krauss, E.	Crown Diamond Paint Company
Latham, W. A.	Canadian Penitentiary Service
Laycraft, N. E. (Chairman)	Department of Public Works
LeBlanc, M. A.	Canadian Arsenals Limited
Michell, Dr. J. H.	Canadian Industries Limited
Moore, A. J.	Stephens Paints Limited
Nickells, R.	British American Paint Company Limited
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Steele, F. L.	The Glidden Company Limited
Stubbs, K. E.	Department of Public Works
Tate, H. W.	Department of National Defence
Tremblay, M.	Canadian Arsenals Limited
Watt, J. S.	National Harbours Board

Standards Officer - W. J. Ireland, CGSB

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

THINNER: ESTER TYPE, FOR LACQUER FINISHES

1. DEFINITION

1.1 This specification applies to a mixture of organic liquids in which the active solvent portion for the lacquer shall be of the ester type.

1.2 For more detailed information on uses, see par. 8.1.

2. APPLICABLE PUBLICATIONS

2.1 The following publications are applicable to this specification:

2.1.1 CGSB 1-GP-71, Methods of Testing Paints and Pigments.

2.1.2 ASTM Standards on Paint, Varnish, Lacquer and Related Products.

2.2 Reference to the above publications, or to test methods therein, is to the issues in effect on the date of invitation to tender, unless otherwise specified.

3. CLASSIFICATION

3.1 The thinner shall be supplied in one class.

4. GENERAL REQUIREMENTS

4.1 The thinner shall be a clear, colorless liquid, free from suspended matter and other visible impurities.

4.2 It shall be suitable for general use as a thinner for lacquer finishes.

* This revision incorporates editorial changes only.

5. DETAIL REQUIREMENTS

Thinner to this specification shall comply with the following detail requirements:

				Test Method	
		Min.	Max.	1-GP-71	ASTM
5.1	Color, Saybolt Chromometer	25	-		D156
5.2	Residue on Evaporation, g per 100 ml	-	0.02	20.1	
5.3	Acidity, KOH, mg per ml	-	0.2		D268
5.4	Distillation Range				D268
5.4.1	5 Per Cent Point, °F	167	-		
	°C	75	-		
5.4.2	End Point, °F	270	338		
		133	170		
5.5	Benzene (benzol)	-	Nil	65.1	
5.6	Esters, % by volume	50	-	66.1	
5.7	Hydrocarbons, % by volume	-	40	66.2	
5.8	Ketones	-	Nil	79.1	

5.9 Water Content - When 1 volume of the thinner is mixed with 10 volumes of toluene (water saturated) the mixture shall show no turbidity.

Method 24.2

5.10 Solvent Power - A solution of 5 g nitrocellulose and 25 ml of the thinner prepared in accordance with the prescribed method shall withstand the addition of 37 ml of toluene without precipitation.

Method 26.1

5.11 Resistance to Blushing - No whitening due to blushing shall occur when a film is tested at 65 per cent Relative Humidity and 73°F (23°C) in accordance with the prescribed method.

Method 38.1

5.12 Sulfur (Copper Strip Test) - After 3 hours at 212°F (100°C) the tarnish on the copper strip shall be not greater than No. 1.

Method: ASTM D130

6. PREPARATION FOR DELIVERY

6.1 Unless otherwise specified, commercial packaging, packing and marking shall be acceptable.

6.2 Labelling - In addition to the labelling requirements of any relevant Acts or Regulations, each container shall be suitably labelled to show the following information:

Manufacturer's Name and Address

Name of Material

CGSB Specification No.

Qualification No. (when required)

Manufacturer's Batch No.

Manufacturer's Code No.

CAUTION: THIS PRODUCT IS INTENDED FOR USE WITH
NITROCELLULOSE LACQUER FINISHES ONLY.

7. INSPECTION

7.1 Sampling shall be carried out in accordance with Method 1.1 of CGSB 1-GP-71, Methods of Testing Paints and Pigments.

7.2 Testing - Unless otherwise specified, the methods of testing shall be those in 1-GP-71 or in ASTM Standards on Paint, Varnish, Lacquer and Related Products, using the method specified with each requirement.

7.3 Classification of Tests - Tests for determining compliance with this specification shall be classified as follows:

7.3.1 Qualification Tests - Those tests that are performed on samples submitted for qualification as a satisfactory product. They shall consist of all tests necessary to establish compliance with all the requirements of this specification.

7.3.2 Lot Acceptance Tests - Those tests that are used to determine the acceptability of a lot or batch of a qualified product. The inspecting authority may request the testing of the material for compliance with any of the requirements of this specification, and may reject a lot or batch on the basis of any requirement in the specification.

8. NOTES

8.1 Intended Uses

8.1.1 This material is intended for thinning lacquer finishes to spraying consistency where the odor of other thinners is objectionable.

8.1.2 Under high humidity conditions a suitable portion of 1-GP-136 thinner should be added to prevent blushing.

8.1.3 Material supplied to this specification may be injurious to the operatives and should therefore be used with adequate ventilation.

8.2 Ordering Data - The purchaser should specify packaging, packing and marking details if commercial practice is not acceptable; and if a qualified product is required.

8.3 Qualification

8.3.1 Qualification Procedure - Details regarding the procedure for qualification of 1-GP-50 thinners may be obtained from:

Director General, Quality Assurance,
Department of National Defence,
Ottawa 4, Canada.

The laboratories are located in the Canadian Government Printing Bureau Building, Sacré-Coeur Blvd., Hull, P.Q.

8.3.2 Qualified Products - Federal Government departments and agencies may also obtain information from the above address regarding availability of qualified products.

8.4 Related Specifications

8.4.1 Related CGSB Specifications

1-GP-110, Thinner: Ketone Type, for Lacquer Finishes
1-GP-136, Thinner: Antiblush, for Nitrocellulose Lacquer.

8.4.2 Other Related Specifications

United States Federal Specification TT-T-266, Thinner; Dope and
Lacquer (Cellulose-Nitrate).

8.5 The publication referred to in par. 2.1.1 is obtainable from the Canadian
Government Specifications Board.

8.6 The publication referred to in par. 2.1.2 is obtainable from the American Society
for Testing and Materials, 1916 Race Street, Philadelphia, Pa., 19103, U.S.A.