Canadian General Standards Board

CGSB

Office des normes générales du Canada

ONGC

1-GP-106c
October 1969

(F)1-GP-106c
Octobre 1969

WITHDRAWAL

April 1986

CANADIAN GENERAL
STANDARDS BOARD

INK, STENCIL, FOR MARKING POROUS SURFACES

This standard is hereby withdrawn. It has been determined that the material covered by this standard is no longer used in quantities that would warrant the continued maintenance of the standard.

RETRAIT

Avril 1986

OFFICE DES NORMES
GÉNÉRALES DU CANADA

ENCRE À POCHOIR POUR LE MARQUAGE SUR SUBJECTILES ABSORBANTS

Cette norme est retirée par le présent avis. Il a été constaté que le matériau qui fait l'objet de la présente norme n'est plus utilisé en quantité suffisante pour maintenir cette norme en vigueur.

Canada

CANADA

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

SPECIFICATION

FOR

INK: STENCIL, FOR MARKING POROUS SURFACES

Withdrawn/Retirée

1-GP-106c

OCTOBER 1969

SUPERSEDES 1-GP-106B
20 OCTOBER 1961

THIS SPECIFICATION APPLIES TO STENCIL INK SUITABLE FOR APPLICATION TO POROUS SURFACES SUCH AS CRATES, WOODEN BOXES, CARDBOARD CARTONS AND BURLAP.

DEPARTMENT OF DEFENCE PRODUCTION, OTTAWA, CANADA

15 cents

COMMITTEE ON PAINTS, PIGMENTS AND RELATED COMMODITIES

and

Aeronautical, Equipment and Ammunition Subcommittee

(Membership at date of approval by the Committee)

Armstrong, W.N.B.	Ontario Research Foundation
Ashton, H.E.	National Research Council
Attendu, M.C.	Québec Hydro
Barry, E.	Canadian Paint Manufacturers Association
Brawley, D.J.	Department of National Defence
Buchanan, L.B.	Department of National Defence
Cheesman, H.	Department of National Defence
Chivers, Capt. G.G.	Department of National Defence
Conen, A.J.	Interchem of Canada Limited
Conley, R.J.	Department of National Defence
Delamater, K.	Sico Inc.
Gareau, A.	Ministère de l'Industrie et du Commerce, Québec
Girard, J.G. (Subcommittee Chairman)	Department of National Defence
Hargrave, D.	Sherwin-Williams Co. of Canada Limited
Harper, J.L.	Department of Supply and Services
Harrington, J.M.	Department of Forestry and Rural Development
Head, E.M.	Canadian Pittsburgh Industries Limited
Hebdige, B.A.	International Paints (Canada) Limited
Honsberger, G.F.	Roxalin of Canada Limited
Horrocks, D.	Mobil Paint Company
House, H.W.	Department of National Defence
Hughes, L.	Interchem of Canada Limited
Krayer-Krauss, E.	Crown Diamond Paint Company
Krokosh, H.G.	Department of Public Works
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
Morrissey, W.J.	Stephens Paints Limited
Nickells, R.	Bapco Paint Limited
Power, J.M.	Department of National Defence
Pranschke, C.	Department of Industry, Trade and Commerce
Reeves, J.W.	Department of National Defence
Rocque, G.	Canadian Arsenals Limited
Rubec, P.	Department of Public Works
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

Withdrawn/Retirée

1-GP-106c
October 1969
Supersedes 1-GP-106b
20 October 1961

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

INK: STENCIL, FOR MARKING POROUS SURFACES

Withdrawn/Retirée

1. DEFINITION

1.1 This specification applies to stencil ink suitable for application to porous surfaces such as crates, wooden boxes, cardboard cartons and burlap.

1.2 For more detailed information on uses, see 8.1.

2. APPLICABLE PUBLICATIONS

2.1 The following publications are applicable to this specification:

2.1.1 CGSB 1-GP-12c, Standard Paint Colors

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

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

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

3. CLASSIFICATION

3.1 The ink shall be supplied in one class.

4. GENERAL REQUIREMENTS

4.1 Ink complying with this specification shall consist of a dispersion of pigment or dye in a suitable quick-drying vehicle.

4.2 The ink shall be suitable for application by fountain brush and stencil board, by stencil brush and stencil board, and by automatic stencilling machines.

4.3 The ink shall dry to produce uniform and legible flat or eggshell markings.

4.4 The ink shall be supplied ready for use. When necessary, it may be reduced with 1-GP-4 Thinner: Petroleum Spirits, in accordance with the manufacturer's instructions.

4.5 The ink shall not skin, curdle, settle, thicken excessively or cake in the original unopened container for one year from date of shipment when stored at a temperature not exceeding 100°F (38°C). At the end of this time it shall be readily mixed to a uniform condition by stirring and shall meet the requirements of this specification.

5. DETAIL REQUIREMENTS

Stencil ink to this specification shall comply with the following detail requirements:

		Min	Max	Test Method 1-GP-71	Test Method ASTM
5.1	Viscosity, No. 3 Ford Cup, sec	12	22		D1200
5.2	Drying Time, Surface-Dry on white pine, min		15	5.13	-
5.3	Fineness of Grind, Hegman	7.5	-	-	D1210
5.4	Nonvolatile Vehicle, % by wt	15	-	19.1	-
5.5	Absorption, in.	3/8	1	46.1	-
*5.6	Benzene	-	Nil	65.1	-
*5.7	Chlorinated Compounds boiling below 257°F (125°C)	-	Nil	73.1	-
5.8	Aniline	-	Nil	81.1	-

5.9 Color - The color of the enamel shall conform to such 1-GP-12c flat colors as may be specified by the purchaser.

Method 12.9

5.10 Skinning Properties - The ink shall be nonskinning.

Method 10.1

5.11 Miscibility with Mineral Spirits - When reduced with an equal volume of 1-GP-4 Thinner: Petroleum Spirits, the ink shall show no evidence of curdling or precipitation after standing for 30 minutes.

Method 45.1

* This requirement may be tested for at the discretion of the inspecting authority.

Withdrawn/Retired

5.12 Effect on Stencil Brushes - After being allowed to dry on a stencil brush for 18 hours, the ink shall be removed by immersing and cleaning the brush in mineral spirits. This treatment shall leave the brush in a clean condition, free from hard or gummy deposit.

Method 47.1

5.13 Accelerated Weathering - When applied to white pine panels, the ink shall withstand four 24-hour cycles of accelerated weathering without cracking, peeling or flaking, and at the end of this period shall show not more than slight chalking or change of color.

Method 122.14

5.14 Application Properties - When applied by stencil brush or fountain brush to white pine, the ink shall leave clean stencil marks free from ragged edges, smudges and smears. The ink shall be satisfactorily retained in the brush without dripping.

Method 136.2

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)
1-GP-12c Color
Manufacturer's Batch No.
Manufacturer's Code No.
Date of Manufacture
Thinning Instructions using 1-GP-4 thinner.

7. INSPECTION

7.1 Sampling - Sampling shall be carried out in accordance with Method 1.1 of CGSB 1-GP-71.

7.2 Testing - The methods of test shall be as specified with each requirement.

Withdrawn/Retired

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

7.3.1 *Qualification Tests* - Those tests that are performed on all samples submitted for qualification as a satisfactory product. They shall consist of the 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 Ink complying with this specification is suitable for application by fountain brush and stencil board, by stencil brush and stencil board, and by automatic stencilling machines.

8.1.2 This ink is suitable for application to porous surfaces such as crates, wooden boxes, cardboard cartons and burlap. It may also be applied to surfaces covered with 1-GP-47 Paint: Obliterating.

8.2 Ordering Data - Purchasers should specify color (par. 5.9); packaging, packing and marking details if commercial practice is not acceptable (par. 6.1); and if a qualified product is required.

8.3 Qualification

8.3.1 *Qualification Procedure* - Details of procedure for qualification of 1-GP-106 stencil inks may be obtained from:

Quality Assurance Division
Technical Services Branch
Canadian Forces Headquarters
Department of National Defence
Ottawa 4, Canada.

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 CGSB Specifications (as to use)

8.4.1 1-GP-107, Ink: Stencil, for Marking Nonporous Surfaces

Withdrawn/Retiree

8.4.2 1-GP-115, Ink: Paste.

8.5 The publications referred to in par. 2.1 and 2.2 are obtainable from the Canadian Government Specifications Board.

8.6 The publication referred to in par. 2.3 is obtainable from the American Society for Testing and Materials, 1916 Race St., Philadelphia, Pa. 19103, U.S.A.

Withdrawn/Retirée

Correspondence regarding this specification should be addressed to the Canadian Government Specifications Board, c/o Department of Supply and Services, Ottawa 4, Canada.