

1-GP-30b
August/Août 1961
CANCELLATION/ANNULATION
January/Janvier 1980

**CANADIAN GENERAL
STANDARDS BOARD**

Standard for

PIGMENTS-IN-OIL, TINTING COLOR

This standard is cancelled because, as far as can be determined, it is no longer being used.

Tinting colors, when required, should be selected in accordance with paint manufacturers' instructions.

**OFFICE DES NORMES
GÉNÉRALES DU CANADA**

Norme

**PIGMENTS BROYÉS À L'HUILE,
PIGMENT COLORÉ**

Cette norme est annulée parce que, dans la mesure où il est possible de le constater, elle n'est plus utilisée.

Les pigments colorés, le cas échéant, devront être choisis conformément aux instructions du fabricant de la peinture.

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

PIGMENTS-IN-OIL; TINTING COLOR

4. GENERAL REQUIREMENTS

4.4 Qualification - Delete this paragraph.

6. PREPARATION FOR DELIVERY

6.2 Labeling - Delete the line "Qualification No. (when required)".

7. INSPECTION

7.3 Classification of Tests - Delete this section.

8. NOTES

8.3 Qualification Procedure - Delete this paragraph.



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CANADIAN GOVERNMENT SPECIFICATIONS BOARD

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SPECIFICATION

FOR

PIGMENTS - IN - OIL; TINTING COLOR

1 - GP - 30b

11 AUGUST 1961

SUPERSEDES 1 - GP - 30A

8 AUGUST 1958

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 INSURES COMPLIANCE WITH THE REQUIREMENTS OF THE SPECIFICATION
AND ITS USE WITHOUT SUCH INSPECTION PROCEDURES MAY NOT BE
ADVISABLE.

THIS SPECIFICATION APPLIES TO PIGMENTS - IN - OIL USED PRIMARILY FOR INTERIOR TINTING PURPOSES.

DEPARTMENT OF DEFENCE PRODUCTION, OTTAWA, CANADA

Price

15 CENTS

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PIGMENTS AND RELATED COMMODITIES

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(Membership at date of approval by the Committee
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Ontario Research Foundation
National Research Council
Department of National Defence/RCAF
Atomic Energy of Canada Limited
Canadian Paint, Varnish and Lacquer Association
Rinshed-Mason Company of Canada Limited
General Paint Corporation
Department of National Defence/Army
Benjamin Moore and Company Limited
Canadian Industries Limited
Canadian Arsenals Limited
Department of Veterans Affairs
Department of Defence Production
Canadian Pittsburgh Industries Limited
Crown Diamond Paint Company Limited
Department of Mines and Technical Surveys
Inspection Services/DND
Canadian Pittsburgh Industries Ltd.
National Research Council
Department of National Defence/Army
Sherwin-Williams Co. of Canada Limited
Department of Forestry
National Research Council
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Department of Justice
Department of Public Works/Testing Laboratories
International Laboratories
Department of Northern Affairs and National Resources
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Brandram-Henderson Limited
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Department of National Defence/Navy
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Department of Transport
Department of National Defence/RCAF
The Glidden Company Limited
The Sherwin-Williams Co. of Canada Ltd.
Department of Forestry
National Harbours Board
Department of National Defence/Army
Department of National Defence/Army
CGSB/National Research Council

1-GP-30b

11 August 1961

Supersedes 1-GP-30a

8 August 1958

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

PIGMENTS-IN-OIL; TINTING COLOR

1. DEFINITION

1.1 This specification applies to pigments-in-oil used primarily for interior tinting purposed.

1.2 For more detailed information on uses, see 8.1.

2. APPLICABLE PUBLICATIONS

The following publications contain requirements applicable to this specification:

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

2.2 ASTM Standards on Paint, Varnish, Lacquer and Related Products (and latest supplement).

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

3. CLASSIFICATION

3.1 The pigments-in-oil shall be of one type, in the colors outlined in the detail requirements.

4. GENERAL REQUIREMENTS

4.1 The pigments shall be ground in a suitable vehicle with a small amount of volatile thinner, together with small amounts of wetting and dispersing agents where necessary, to a semipaste or fluid consistency.

4.2 The paste shall not cake in the container and shall mix readily with a thinning liquid to form a smooth product of brushing consistency.

4.3 When specified, the mass color and character of tint shall be the same as, and the tinting strength shall be not less than, that of a sample mutually agreed upon by the purchaser and supplier.

4.4 Qualification - When requested by the purchaser, the pigment shall be a product qualified by the specified procedure and such qualification shall be a prerequisite for tendering (see 8.3).

5. DETAIL REQUIREMENTS

Pigments-in-oil to this specification shall comply with the following detail requirements:

5.1 Analytical Requirements - The tinting colors shall have the composition specified in Table 1, the pigments in each case complying with the respective ASTM specification.

5.2 Water Content - The paste shall contain not more than 1 per cent by weight of water, with the following exceptions:

<u>Pigment</u>	<u>Per Cent, max</u>
Bone Black	2
Iron Blue (Prussian)	4
Ultramarine Blue	3
Burnt Sienna	3
Burnt Umber	3
Raw Umber	3
Raw Sienna	3

Method 24.1

5.3 Finess of Grind - The paste shall have a minimum Hegman Grind of 5.

ASTM Method D1210

5.4 Consistency

5.4.1 Minimum - The consistency of the pigments-in-oil shall be not less than 100 Krébs units.

Method 4.5

5.4.2 Maximum - The pouring time in the maximum consistency test shall be not more than 24 second.

Par. 7.4

TABLE 1

COMPOSITION OF MIXED PASTE, Per Cent by Weight

<u>Color</u>	<u>ASTM Specification</u>	<u>Pigment Content (Min) Method 21.1</u>	<u>Volatile Matter (Max) Method 17.1</u>
<u>Blacks</u>			
Lampblack	D209	25	1
Bone Black	D210	45	11
Carbon Black	D561	10	18
Black Iron Oxide	D769	70	6
<u>Blues</u>			
Iron (Prussian) Blue	D261	32	27
Ultramarine Blue	D262	66	10

<u>Color</u>	<u>ASTM Specification</u>	<u>Pigment Content (Min) Method 21.1</u>	<u>Volatile Matter (Max) Method 17.1</u>
<u>Browns</u>			
Burnt Sienna	D765	55	9
Burnt Umber	D763	55	9
Raw Umber	D763	55	9
Brown Iron Oxide	D84	70	6
<u>Greens</u>			
Light Chrome Green	D213	65	7
Medium Chrome Green	D217	60	8
Dark Chrome Green	D212	45	22
Chromium Oxide	D263	75	5
<u>Oranges</u>			
Dark Chrome Orange	D211 Type IV	82	4
Light Chrome Orange	D211 Type V	79	4
<u>Reds</u>			
Bright Red Iron (Oxide)	D84	69	6
Indian Red Iron (Oxide)	D84	68	6
Venetian Red	D767	76	5
<u>Yellows</u>			
Light Chrome (Lemon) Yellow	D211 Type II	65	14
Medium Chrome Yellow	D211 Type III	60	8
Primrose Chrome Yellow	D211 Type I	70	9
Yellow Ochre	D85	70	6
Raw Sienna	D765	55	9
Yellow Iron Oxide	D768	60	8

5.5 Skimming - The paste shall be nonskinning.

Method 10.1

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.
 Color
 Qualification No. (when required)
 Manufacturer's Batch No.
 Manufacturer's Code No.
 Date of Manufacture
 Mixing Instructions

7. INSPECTION

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

7.2 Testing - Unless otherwise specified, methods of test 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 the tests necessary to establish compliance with 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 testing authority may test 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.

7.4 Maximum Consistency - Transfer a thoroughly mixed portion of the paste to a half-pint can (2-7/8 in. diameter), filling can to within 1/4 in. of the top. Cover, and allow to come to a temperature of 25 °C (77 °F). Thoroughly stir the sample and immediately pour (at the maximum pouring rate) the contents of the container into a weight-per-gallon cup (Method 2.1) having a capacity of 100 ± 0.1 ml, and note the time required to fill the cup.

8. NOTES

8.1 Intended Uses

8.1.1 Pigments-in-oil to this specification are intended for interior color matching in maintenance painting, in the proportion of not more than 1/16 gallon (1/2 pint) to 1 gallon of oil or alkyd paint. They are not intended for use with emulsion or epoxy paints.

8.2 Ordering Data - Purchasers shall specify color required; packaging, packing and marking if commercial practice is not suitable; and if qualification is required.

8.3 Qualification Procedure - Details regarding procedure for qualification of 1-GP-30 pigments-in-oil may be obtained from:

Chief, Testing Laboratories
Department of Public Works
OTTAWA, Ontario.

8.4 Related Specifications

8.4.1 This specification is based on United States Federal specification TT-P-318, Pigments-in-Oil, Tinting Colors.

8.5 The publication referred to in 2.1 is obtainable from the CGSB Secretary.

8.6 The publication referred to in 2.2 is obtainable from the American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa., U.S.A.