2-GP-44
29 September 1961
CANCELLATION
September 1969

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Standard
for

SOAP: SCOURING, CAKE FORM

Standard 2-GP-44, dated 29 September 1961, is cancelled as of September 1969 because the product is no longer procured in significant quantity by the Federal Government.

CANADA

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

SPECIFICATION

FOR

SOAP; SCOURING, CAKE FORM

2-GP-44

29 SEPTEMBER 1961

ARCHIVES COPY

Withdrawn/Retirée

THIS SPECIFICATION APPLIES TO A FINE ABRASIVE TYPE SCOURING SOAP IN CAKE FORM SUITABLE FOR CLEANING AND SCOURING PURPOSES.

NATIONAL RESEARCH COUNCIL, OTTAWA, CANADA

Price

10 CENTS

For the convenience of those wishing to purchase publications of the Canadian Government Specifications Board, a coupon system has been introduced in order to make payment for these publications relatively simple. Coupons are available in denominations of 5¢., 25¢., and 50¢. and may be obtained by forwarding a remittance to the National Research Council in the form of Bank, Express, or Post Office Money Order, or a cheque made payable at par in Ottawa, to Receiver General of Canada, credit National Research Council (stamps are not acceptable). These coupons may then be used when submitting orders for publications. An Index of Specifications is available on request.

COMMITTEE ON SOAPS AND DETERGENTS

(Membership at date of approval by the Committee for submission to the CGSB)

Bayley, C.H. (Chairman)	National Research Council
Ammann, P.J.	G.H. Wood & Company Ltd.
Birnbaum, E.I.	Hart Products Company of Canada, Ltd.
Bowen, B.C.	Inspection Services/DND
Cheesman, H.W.	Department of National Defence/Air
Cukier, S.	Chemical Developments of Canada, Ltd.
Departmental Purchasing Agent	Department of Veterans Affairs
Fumerton, C.A.	Dept. of Mines and Technical Surveys
Gudgeon, E.	Canadian Aniline & Extract Co. Ltd.
Howey, A.F.	Procter and Gamble Company Ltd.
Hubeny, V.	The C-P Company
Hyde, B.S.	Atlas Powder Company, Canada, Ltd.
Leger, A.E.	Defence Research Chemical Labs
Lehberg, F.H.	Lever Brothers Limited
Lomas, H.	E.F. Drew & Company Ltd.
Matthews, J.E.	Dept. of National Health & Welfare
McKeown, G.G.	Dept. of National Health & Welfare
Showalter, H.A.	Inspection Services/DND
Stolfa, A.M.	Department of National Defence/Army
Trusler, F.W.	Colgate-Palmolive Limited
Welch, C. .	Dustbane Mfg. Co. Ltd.
Wilkins, B.	Department of Public Works
Mitton, H.E. (Secretary)	CGSB/National Research Council

Withdrawn/Retirée

2-GP-44
29 September 1961

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

SOAP; SCOURING, CAKE FORM

Withdrawn/Retirée

1. DEFINITION

1.1 This specification applies to a fine abrasive type scouring soap in cake form suitable for cleaning and scouring purposes.

1.2 For more information on uses, see 9.1.

2. APPLICABLE PUBLICATIONS

2.1 The following publications are applicable to this specification:

2.1.1 CGSB 2-GP-11a, Methods of Testing and Analysis of Soaps and Detergents.

2.1.2 CGSB 8-GP-1a, Sieves; Testing, Woven Wire.

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

3. CLASSIFICATION (not applicable)

4. GENERAL REQUIREMENTS

4.1 The product shall be made from uniformly mixed high-quality soap and abrasives.

4.2 It shall be in cake form, of weight as specified by the purchaser.

4.3 It shall be white in color.

4.4 The cakes of soap shall be well made, uniform in size and free from objectionable odor.

5. BASIS OF ANALYSIS

5.1 The percentage of moisture and volatile matter at 105 ± 2°C shall be computed and reported by the testing laboratory on the grit soap as received. The percentage of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 4.0 per cent.

6. DETAIL REQUIREMENTS

The scouring soap shall comply with the following detail requirements:

		Min	Max	Test Method
6.1	Moisture and Volatile Matter at 105 ± 2°C, % by wt	-	5.0	2-GP-11/13.1
6.2	Anhydrous Soap, % by wt	6.0	10.0	2-GP-11/3.1
6.3	Alkaline Salts (calculated as Na_2C0_3), % by wt	-	1.5	Par 8.2.1
6.4	Free Alkali (calculated as NaOH), % by wt	-	0.1	Par 8.2.2
6.5	Free Acid (as oleic acid), % by wt	-	0.5	Par 8.2.2
6.6	Sugar	-	None	2-GP-11/12.1
6.7	Material Insoluble in Water	Remainder		2-GP-11/10.3*

6.8 Material Insoluble in Water - The matter insoluble in water shall consist essentially of ground feldspar. It shall be sufficiently fine that, when the soap and other soluble matter are extracted from the cake by digestion with water, 99 per cent of the matter insoluble in water shall pass through a 149 micron** sieve (U.S. Standard No. 100) and 95 per cent shall pass through a 74 micron** sieve (U.S. Standard No. 200).

2-GP-11 Method 16.2

6.9 Abrasiveness - The scouring soap shall not scratch window glass.

Par 8.2.3

6.10 Friability and Water Immersion Loss - The average loss in weight of the cake soap on immersion in water for one hour at room temperature shall be not more than 10 per cent. Specimen cakes so tested shall show absence of crumbling, severe cracking or other disintegration effects, which indicate unsatisfactory serviceability of the product.

Par 8.2.4

7. PREPARATION FOR DELIVERY

7.1 Packaging, Labelling, Packing and Marking - Unless otherwise specified, commercial practice shall be acceptable.

---

* Retain water extract for determination of alkaline salts (see 6.3) and the water insoluble matter for examination (see 6.8).

** CGSB 8-GP-1, Sieves; Testing, Woven Wire

Withdrawn/Retirée

8. INSPECTION

8.1 Sampling - A sufficient number of cakes of the soap shall be taken from each lot to give a representative sample of the product.

8.2 Testing - Unless otherwise specified, the methods of test shall be those in CGSB 2-GP-11a, using the methods prescribed with each requirement.

8.2.1 Alkaline Salts - Titrate the water solution obtained from the determination of water insoluble matter with standard acid, using methyl orange as indicator. Calculate the alkaline salts to sodium carbonate (Na_2C0_3), correcting as necessary for any free alkali or free acid.

8.2.2 Free Alkali or Free Acid - Add 75 ml of hot neutral 95 per cent ethyl alcohol to 2 g of sample (accurately weighed) and boil for 10 minutes. Filter the solution through a Gooch crucible and wash the residue with hot neutral alcohol until free of soap. Heat the filtrate to incipient boiling, add 0.5 ml phenolphthalein indicator solution and titrate with standard acid or alkali solution; calculate to sodium hydroxide, if alkaline, or to oleic acid, if acid.

8.2.3 Abrasiveness - Determine visually whether the soap scratches window glass, by rubbing it on a moistened cloth and then rubbing a glass surface with the cloth. Take care to employ plenty of the product on the portion of the cloth contacting the glass surface.

8.2.4 Friability and Water Immersion Loss - Sample cakes of soap, free from surface cracks or chips, shall be heated in an oven at 100 to 105 °C (212 to 221 °F) for 24 hours. Cool, dust the cakes off lightly with a balance brush to remove loosely adhering particles, and weigh to the nearest gram (W_1). Place the cakes, with their long axis vertical, in 800 ml low-form beakers so that they are supported at a height of approximately $\frac{1}{4}$ inch above the bottom of the beaker. Add enough distilled water to bring the water level $\frac{1}{4}$ inch above the top of the sample. Keep immersed without agitation for 1 hour at 25 to 28°C (77 to 82°F). At end of one hour, siphon off the water as completely as possible, retaining the samples in the beakers. Dry on the steam bath to remove residual water, then in an oven for 24 hours at 100 to 105 °C (212 to 221 °F). Cool, remove the samples from the beakers and weigh (W_2). After weighing, inspect the specimen cakes for disintegration effects. Calculate per cent loss in weight of the samples as follows:

$$\text{Per cent loss in weight} = \frac{(W_1 - W_2)}{W_1} \times 100$$

9. NOTES

9.1 Intended Uses - Scouring soap to this specification is intended for use in cleaning hard surfaces such as glass and enamel ware.

9.2 Purchaser Options - Cake weight (see 4.2), Packaging, Labelling, Packing and Marking if commercial practice is not acceptable (see 7.1).

9.3 Related Specifications - At the time of publication, the undernoted document was a corresponding specification (but not necessarily equivalent):

9.3.1 U.S. Federal Specification P-S-571c, Soap, Scouring, Cake Form.

9.4 The publications listed in Section 2 may be obtained from the CGSB Secretary.

Correspondence regarding this specification should be addressed to the Secretary, Canadian Government Specifications Board, National Research Council, Ottawa 2, Canada.

Withdrawn/Retirée