3-GP-852
19 March 1953
CANCELLATION
25 March 1960

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

COMPOUNDS; OIL AND WATER LEVEL INDICATING

CGSB Specification 3-GP-852, dated 19 March 1953, is cancelled as of 25 March 1960.

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CANADIAN GOVERNMENT SPECIFICATIONS BOARD

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SPECIFICATION

FOR

COMPOUNDS; OIL AND WATER LEVEL INDICATING

3-GP-852

19 MARCH 1953

Withdrawn/Retirée

THIS SPECIFICATION APPLIES TO OIL AND WATER LEVEL INDICATING COMPOUNDS WHICH SHALL CONSIST OF SUITABLE DYES EMBODIED IN UNIFORM PASTES SUCH THAT A DISTINCTIVE COLOR CHANGE WILL OCCUR ON CONTACT WITH WATER OR PETROLEUM PRODUCT

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3-GP-852
19 March 1953

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

COMPOUNDS; OIL AND WATER LEVEL INDICATING

1. DEFINITION

1.1 This specification applies to oil and water level indicating compounds which shall consist of suitable dyes embodied in uniform pastes such that a distinctive color change will occur on contact with water or petroleum product.

1.2 These compounds shall be of two types:

1.2.1 Type I - for use in measuring water level.

1.2.2 Type II - for use in measuring petroleum product level.

2. GENERAL REQUIREMENTS

2.1 The compounds supplied shall be smooth in texture and free from dust, dirt, or other foreign matter.

2.2 The requirements contained hereunder are absolute, and not subject to corrections for tolerance of test methods. However, if multiple determinations are made, average results will be used.

3. DETAIL REQUIREMENTS

3.1 Physical and Chemical Requirements - Type I

3.1.1 Level Indication - Color change shall be clear and distinct at the level being measured and shall occur within five seconds of the immersion of the gauge.

Method 102.1

3.1.2 Level Measurement Error as Received - The level measurement error as received shall not be greater than 0.15 inches.

Method 103.1

3.1.3 Effect of Storage at 120°F.

3.1.3.1 Storage Properties at 120°F. - When stored at 120° ± 5°F for a period of seven days there shall be no evidence of oxidation products formed or excessive drying. Dye separation shall not fail the sample if there is a return to the original condition on mixing.

Method 38.11

3.1.3.2 Level Measurement Error after Storage - The level measurement error after storage at 120° ± 5°F for 7 days shall not be greater than 0.5 inches.

Method 38.11

3.1.4 Effect of High Relative Humidity - After storage for 30 minutes at room temperature in an atmosphere approaching 100 per cent relative humidity, there shall be no distinct color change to that characteristic of water contact. A slight darkening is permissible. The paste shall not be so wet

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as to destroy the film by running. Partial immersion of the gauge shall give a clear indication of water level.

Method 104.1

3.2 Physical and Chemical Properties - Type II

3.2.1 Level Indication - Color change shall be clear and distinct at the level being measured and shall occur within five seconds of the immersion of the gauge.

Method 102.1

3.2.2 Level Measurement Error as Received - The level measurement error as received shall not be greater than 0.20 inches.

Method 103.1

3.2.3 Effect of Storage at 120°F.

3.2.3.1 Storage Properties at 120°F. - When stored at 120° ± 5°F. for a period of seven days there shall be no evidence of oxidation products formed or excessive drying. Dye separation shall not fail the sample if there is a return to the original content on mixing.

Method 38.11

3.2.3.2 Level Measurement Error after Storage - The level measurement error after storage at 120°F ± 5°F for 7 days shall not be greater than 0.20 inches.

Method 38.11

3.2.4 Effect of High Relative Humidity - After storage for 30 minutes at room temperature in an atmosphere approaching 100 per cent relative humidity, there shall be no distinct color change except a slight darkening. The paste shall not be so wet as to destroy the film by running. Partial immersion of the gauge shall give a clear indication of gasoline level.

Method 104.1

4. SAMPLING AND TEST METHODS

4.1 Representative samples provided for tests shall be new and unused. They shall be in their original containers.

4.2 The methods of test shall in all cases be those described in 3-GP-0, using the procedure specified with each requirement.

5. NOTES

5.1 Intended Uses - The materials covered in this specification are intended for use in determining water or petroleum product level as required.

5.2 Related C.G.S.B. Specifications

5.2.1 There are no related C.G.S.B. Specifications.

5.3 Other Related Specifications

5.3.1 There are no other related specifications.

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

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