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Draft Jamaican Standard

Code of Practice

for

**Determining Volatile Organic Compound (VOC) Content of  
Paints and Related Coatings**

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**BUREAU OF STANDARDS JAMAICA**

**NON-OBJECTION PERIOD:**

**17 SEPTEMBER 2023 – 16 OCTOBER 2023**

DRAFT JAMAICAN STANDARD

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JS ASTM D3960-05 (Reapproved 2018): 202X

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Jamaican Standards establish requirements in relation to commodities, processes and practices, but do not purport to include all the necessary provisions of a contract.

The attention of those using this specification is called to the necessity of complying with any relevant legislation.

#### Amendments

No.	Date of Issue	Remarks	Entered by and date

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## National foreword

This standard is an adoption and is identical to D3960-05(Reapproved 2018) Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings published by ASTM International (ASTM).

### Scope of the standard

1.1 This practice measures the volatile organic compound (VOC) content of solventborne and waterborne paints and related coatings as determined from the quantity of material released from a sample under specified bake conditions and subtracting exempt volatile compounds and water if present.

NOTE 1 - The regulatory definition, under the control of the U.S. EPA, can change. To ensure currency, contact the local air pollution control agency.

1.2 This practice provides a guide to the selection of appropriate ASTM test methods for the determination of VOC content.

1.3 Certain organic compounds that may be released under the specified bake conditions are not counted toward coating VOC content because they do not participate appreciably in atmospheric photochemical reactions. Such negligibly photochemically reactive compounds are referred to, as exempt volatile compounds in this practice.

NOTE 2 - Information on the US EPA definition of VOC and a list of the current US EPA approved exempt volatile compounds which have been used in coatings, are provided in Appendix X3.

1.4 VOC content is calculated as a function of (1) the volume of coating less water and exempt volatile compounds, and (2) the volume of coating solids, and (3) the weight of coating solids.

1.5 The values stated in SI units are to be regarded as standard.

1.6 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.

1.7 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

Where the words 'International Standard' appear, referring to this standard, they should be read as 'Jamaican Standard'.

Where reference is made to informative and normative annexes the following definitions should be noted:

- Informative Annex – gives additional information intended to assist in the understanding or use of the document. They do not contain requirements.
- Normative Annex – gives provisions additional to those in the body of a document. They contain requirements.

Users should note that all standards undergo revision from time to time and that any reference made herein to any standard implies its latest edition, unless otherwise stated.

This standard is voluntary.



### **Committee representation**

The preparation of this standard for the Standards Council, established under the Standards Act of 1969, was carried out under the supervision of the Paints and Surface Coatings Technical Committee which at the time comprised the following members:

### **Acknowledgment**

Acknowledgement is made to ASTM International (ASTM) for permission to adopt D3960-05 (Reapproved 2018).

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