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Draft Jamaican Standard

Method of Test

for

The determination of flash point – **Method for flash no-flash  
and flash point by small scale closed cup tester**

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**BUREAU OF STANDARDS JAMAICA**

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**31 MAY 2023 – 29 JUNE 2023**

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**Month 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 **ISO 3679: 2022** Determination of flash point – Method for flash no-flash and flash point by small scale closed cup tester published by the International Organization for Standardization.

## Scope of the standard

This document describes three procedures (A, B and C) covering determinations of flash no-flash and flash point.

Rapid equilibrium procedures A and B are applicable to flash no-flash and flash point tests of paints, including water-borne paints, varnishes, binders for paints and varnishes, adhesives, solvents, petroleum products including aviation turbine, diesel and kerosene fuels, fatty acid methyl esters and related products over the temperature range  $-30\text{ }^{\circ}\text{C}$  to  $300\text{ }^{\circ}\text{C}$ . The rapid equilibrium procedures are used to determine whether a product will or will not flash at a specified temperature (flash no-flash procedure A) or the flash point of a sample (procedure B). When used in conjunction with the flash detector (A.1.6), this document is also suitable to determine the flash point of fatty acid methyl esters (FAME). The validity of the precision is given in Table 2.

Non-equilibrium procedure C is applicable to petroleum products including aviation turbine, diesel and kerosene fuels, and related petroleum products, over the temperature range  $-20\text{ }^{\circ}\text{C}$  to  $300\text{ }^{\circ}\text{C}$ . The non-equilibrium procedure is automated to determine the flash point. Precision has been determined over the range  $40\text{ }^{\circ}\text{C}$  to  $135\text{ }^{\circ}\text{C}$ .

For specifications and regulations, procedures A or B are routinely used (see 10.1.1).

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 the International Organization for Standardization (ISO) for permission to adopt **ISO 3679:2022(E)**.

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