DJS ASTM D1123: 2022 ICS 71.100.45



Mattanaican standard

IMPORTANT NOTICE

Jamaican standards are subjected to periodic review. The next amendment will be sent without charge if you cut along the dotted line and return the self-addressed label. If we do not receive this label we have no record that you wish to be kept up-to-date. Our address:

Bureau of Standards Jamaica 6 Winchester Road P.O. Box 113 Kingston 10 Jamaica W.I.

-----(Xcut along the line)-----

JS ASTM D1123: 2022

NAME OR DESIGNATION	 	

ADDRESS.....

JBS CERTIFICATION MARK PROGRAMME

The general policies of the JBS Certification Mark Programme are as follows:

- The JBS provides certification services for manufacturers participating in the programme and licensed to use the gazetted JBS Certification Marks to indicate conformity with Jamaican Standards.
- Where feasible, programmes will be developed to meet special requirements of the submittor.
- JBS certification is provided in the interest of maintaining agreed-upon standard requirements. Where applicable, certification may form the basis for acceptance by inspection authorities responsible for enforcement of regulations.
- In performing its functions in accordance with its policies, JBS does not assume or undertake to discharge any responsibility of the manufacturer or any other party.

Participants in the programme should note that in the event of failure to resolve an issue arising from interpretation of requirements, there is a formal appeal procedure.

Further information concerning the details of JBS Certification Mark Programme may be obtained from the Jamaica Bureau of Standards, 6 Winchester Road, Kingston 10.

CERTIFICATION MARKS



Product Certification Marks



Certification of Agricultural Produce (CAP) Mark



Plant Certification Mark



Jamaica-Made Mark

Draft Jamaican Standard

Method of Test

or

Water in Engine Coolant Concentrate by the Karl Fischer Reagent Method

Bureau of Standards Jamaica 6 Winchester Road P.O. Box 113 Kingston 10 Jamaica, W. I. Tel: (876) 926 -3140-5, (876) 632-4275 or (876) 618-1534 Fax: (876) 929 -4736 Website: <u>www.bsj.org.jm</u> E-mail: <u>info@bsj.org.jm</u>

Month 2022

©2022 Bureau of Standards Jamaica

All rights reserved. Unless otherwise specified, no part of a Bureau of Standards publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including, photocopying microfilm or scanning without permission in writing.

ISBN XXX-XXX-XXX-X

Declared by the Bureau of Standards Jamaica to be <mark>a standard method of test</mark> pursuant to section 7 of the Standards Act 1969.

First published Month 202X

This standard was circulated in draft form for thirty (30) days non-objection under the reference DJS ASTM D1123: 2022.

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

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

No. Date of Issue Remarks Entered by and date				
	No.	Date of Issue	Remarks	Entered by and date

Amendments

Contents

National Forewordiv	
Acknowledgementiv	$\mathbf{\lambda}$
1. Scope1	
2. Reference Standards1	
3. Terminology1	0
4. Summary of Test Method1	
5. Significance and Use2	
Test Method A – Manual Titration	
6. Apparatus2	
7. Reagent	
8. Hazards	
9. Sampling	
10. Standardization of Reagent3	
11. Procedure	
12. Calculation4	
13. Precision and Bias4	
Test Method B – Coulometric Titration	
14. Apparatus	
15. Reagents	
16. Hazards	
17. Preparation of Apparatus5	
18. Verification of System by Direct Titration of Water	
19. Sample Sizes	
20. Procedure	
21. Calculation	
22. Precision and Bias6)
23. Keywords)
Tables	
1. Recommend Sample Size4	ł
Figures	
1. Titration Flask Assembly 2	a di seconda
Annex	
All Notes on Interferences	5
	,

National Foreword

This standard is an adoption and is identical to ASTM D1123: 2022 Standard test method for Water in Engine Coolant Concentrate by Karl Fischer Reagent Method published by American Society for Testing Materials (ASTM) International.

Scope of the Standard

1.1 These test methods cover the determination of the water present in new or unused glycol-based coolant concentrates using a manual (Test Method A) or an automatic (Test Method B) coulometric titrator procedure.

1.2 Many carbonyl compounds react slowly with the Fischer reagent, causing a fading end point and leading to high results. A modified Fischer reagent procedure is included that minimizes these undesirable and interfering reactions.

1.3 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.4 This standard does not purport to address all of the safety problems, 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. For specific hazards statements see Sections 8 and 16.

1.5 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.

Acknowledgement

Acknowledgement is made to American Society for Testing and Materials (ASTM) International for permission to adopt ASTM D1123: 2022.