



MALAYSIAN STANDARD

MS 1723:2017

Performance evaluation of air pollution control and treatment systems - Dry dust collectors - Specification (First revision)

ICS: 13.040.40

Descriptors: dry dust collectors, air pollution control, specification

© Copyright 2017

DEPARTMENT OF STANDARDS MALAYSIA

DEVELOPMENT OF MALAYSIAN STANDARDS

The **Department of Standards Malaysia (STANDARDS MALAYSIA)** is the national standards and accreditation body of Malaysia.

The main function of STANDARDS MALAYSIA is to foster and promote standards, standardisation and accreditation as a means of advancing the national economy, promoting industrial efficiency and development, benefiting the health and safety of the public, protecting the consumers, facilitating domestic and international trade and furthering international cooperation in relation to standards and standardisation.

Malaysian Standards (MS) are developed through consensus by committees which comprise balanced representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject at hand. To the greatest extent possible, Malaysian Standards are aligned to or are adoption of international standards. Approval of a standard as a Malaysian Standard is governed by the Standards of Malaysia Act 1996 [Act 549]. Malaysian Standards are reviewed periodically. The use of Malaysian Standards is voluntary except in so far as they are made mandatory by regulatory authorities by means of regulations, local by-laws or any other similar ways.

For the purposes of Malaysian Standards, the following definitions apply:

Revision: A process where existing Malaysian Standard is reviewed and updated which resulted in the publication of a new edition of the Malaysian Standard.

Confirmed MS: A Malaysian Standard that has been reviewed by the responsible committee and confirmed that its contents are current.

Amendment: A process where a provision(s) of existing Malaysian Standard is altered. The changes are indicated in an amendment page which is incorporated into the existing Malaysian Standard. Amendments can be of technical and/or editorial nature.

Technical corrigendum: A corrected reprint of the current edition which is issued to correct either a technical error or ambiguity in a Malaysian Standard inadvertently introduced either in drafting or in printing and which could lead to incorrect or unsafe application of the publication.

NOTE: Technical corrigenda are not to correct errors which can be assumed to have no consequences in the application of the MS, for example minor printing errors.

STANDARDS MALAYSIA has appointed **SIRIM Berhad** as the agent to develop, distribute and sell Malaysian Standards.

For further information on Malaysian Standards, please contact:

Department of Standards Malaysia
Ministry of Science, Technology and Innovation
Level 1 & 2, Block 2300, Century Square
Jalan Usahawan
63000 Cyberjaya
Selangor Darul Ehsan
MALAYSIA

Tel: 60 3 8318 0002
Fax: 60 3 8319 3131
<http://www.jsm.gov.my>
E-mail: central@jsm.gov.my

OR **SIRIM Berhad**
(Company No. 367474 - V)
1, Persiaran Dato' Menteri
Section 2, P. O. Box 7035
40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA

Tel: 60 3 5544 6000
Fax: 60 3 5510 8095
<http://www.sirim.my>
E-mail: msonline@sirim.my

Contents

	Page
Committee representation	ii
Foreword.....	iii
1 Scope.....	1
2 Normative references	1
3 Safety aspects	1
4 Terms and definitions	1
5 Principle	4
6 Summary of methods	7
7 Required personnel	7
8 Apparatus	7
9 Preparatory work before sampling	8
10 Testing procedure.....	9
11 Method of calculation.....	11
12 Accuracy.....	13
13 Reporting	13
Annex A Sample calculation and interpretation.....	15
Annex B Schematic diagram of sampling equipment.....	39

MS 1723:2017

Committee representation

The Industry Standards Committee on Environmental Management (ISC Z) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia
Association of Environmental Consultants and Companies of Malaysia
Centre for Environment Technology and Development Malaysia
Department of Environment
Department of Standards Malaysia
Environmental Management and Research Association of Malaysia
Federation of Malaysian Manufacturers
Malaysian Industry-Government Group for High Technology
Malaysian Institute of Chemistry
Malaysian International Chamber of Commerce and Industry
Malaysian Palm Oil Council
Malaysian Plastics Manufacturers Association
Malaysian Rubber Board
Malaysian Rubber Glove Manufacturer's Association
Malaysian Textile Manufacturers Association
Ministry of Domestic Trade, Co-operatives and Consumerism
Ministry of Energy, Green Technology and Water
Ministry of Natural Resources and Environment
Ministry of Plantation Industries and Commodities
Ministry of Science, Technology and Innovation
SIRIM Berhad (Energy and Environment Flagship)
SIRIM Berhad (Secretariat)
The Electrical and Electronics Association of Malaysia
The Institution of Engineers, Malaysia
Universiti Malaya
Universiti Putra Malaysia

The Technical Committee on Air Quality which supervised the development of this Malaysian Standard consists of representatives from the following organisations:

Alam Sekitar Malaysia Sdn Bhd
Association of Environmental Consultants and Companies of Malaysia
Department of Chemistry, Malaysia
Department of Environment
Department of Occupational Safety and Health Malaysia
Malaysian Industrial Hygiene Association
Malaysian Meteorological Department
Ministry of Health Malaysia (Engineering Services Division)
SIRIM Berhad (Secretariat)
Universiti Kebangsaan Malaysia
Universiti Putra Malaysia

The Working Group on Stationary Source Emissions which developed this Malaysian Standard consists of representatives from the following organisations:

Alam Sekitar Malaysia Sdn Bhd
Association of Environmental Consultants and Companies of Malaysia
Department of Chemistry, Malaysia
Department of Environment
Environmental Science (M) Sdn Bhd
Excel Air Engineering Sdn Bhd
Malaysian Rubber Board
Ministry of Health Malaysia (Engineering Services Division)
SIRIM Berhad (Secretariat)
Spectrum Laboratories Sdn Bhd
The Institution of Engineers, Malaysia
Universiti Malaya

Foreword

This Malaysian Standard was developed by the Working Group on Stationary Source Emissions under the authority of the Industry Standards Committee on Environmental Management.

Major modifications in this revision are as follows:

- a) the title has been changed to “Performance evaluation of air pollution control and treatment systems - Dry dust collectors - Specification”, to reflect a wider coverage for dry filter aside from mechanical dust collectors;
- b) addition of new terminology under Clause 4; and
- c) incorporation of new requirements in the standard to cater for Method II, collected dust measurement.

This Malaysian Standard cancels and replaces MS 1723:2003, *Performance evaluation of air pollution control and treatment systems: Mechanical dust collectors*.

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.