



MALAYSIAN STANDARD

MS 2488:2012

**Respiratory protective devices - Fresh air
hose breathing apparatus for use with full
face mask, half mask or mouthpiece
assembly - Requirements, testing, marking**

ICS: 13.340.30

Descriptors: respiratory protective equipment, accident prevention, fresh air hose, breathing, full mask, half mask, mouth piece assembly, specifications, tests, marking

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Committee representation

The Industry Standards Committee on Occupational Safety and Health (ISC W) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Business Council for Sustainable Development Malaysia
Chemical Industries Council of Malaysia
Construction Industry Development Board Malaysia
Department of Agriculture
Department of Chemistry, Malaysia
Department of Environment
Department of Occupational Safety and Health Malaysia
Department of Standards Malaysia
Federation of Malaysian Manufacturers
Jabatan Bomba dan Penyelamat Malaysia
Lloyd's Register Technical Services Sdn Bhd
Malaysian Employers Federation
Malaysian Industrial Hygiene Association
Malaysian International Chambers of Commerce and Industry
Malaysian Nuclear Agency
Malaysian Society for Occupational Safety and Health
Malaysian Trades Union Congress
Minerals and Geoscience Department Malaysia
Ministry of Health Malaysia
Ministry of International Trade and Industry
National Institute of Occupational Safety and Health
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd
SME Corporation Malaysia
Suruhanjaya Tenaga
The Institution of Engineers, Malaysia
Universiti Kebangsaan Malaysia

The Technical Committee on Personal Safety - Protective Clothing and Equipment for Occupational Use which recommended the adoption of the EN Standard as Malaysian Standard consists of representatives from the following organisations:

3M Malaysia Sdn Bhd
Construction Industry Development Board Malaysia
Department of Chemistry, Malaysia
Department of Occupational Safety and Health Malaysia
Malaysian Nuclear Agency
National Institute of Occupational Safety and Health
PETRONAS Carigali Sdn Bhd
ProGuard Technologies (M) Sdn Bhd
Projek Lebuhraya Utara-Selatan Berhad
Science and Technology Research Institute for Defence
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd

Co-opted member:

Jabatan Bomba dan Penyelamat Malaysia

NATIONAL FOREWORD

The adoption of the EN Standard as a Malaysian Standard was recommended by the Technical Committee on Personal Safety - Protective Clothing and Equipment for Occupational Use under the authority of the Industry Standards Committee on Occupational Safety and Health.

This Malaysian Standard is identical with EN 138:1994, *Respiratory protective devices - Fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece assembly - Requirements, testing, marking*, published by the European Committee for Standardization (CEN). However, for the purposes of this Malaysian Standard, the following apply:

- a) in the source text, "this European Standard" should read "this Malaysian Standard";
- b) the comma which is used as a decimal sign (if any), to read as a point; and
- c) reference to European Standards should be replaced by corresponding Malaysian Standards as follows:

<u>Referenced European Standards</u>	<u>Corresponding Malaysian Standards</u>
EN 132, <i>Respiratory protective devices - Definitions of terms and pictograms</i>	MS 2483, <i>Respiratory protective devices - Definitions of terms and pictograms</i>
EN 134, <i>Respiratory protective devices - Nomenclature of components</i>	MS 2485, <i>Respiratory protective devices - Nomenclature of components</i>
EN 136, <i>Respiratory protective devices - Full face masks - Requirements, testing, marking</i>	MS 2486, <i>Respiratory protective devices - Full face masks - Requirements, testing, marking</i>
EN 140, <i>Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking</i>	MS 2490, <i>Respiratory protective devices - Half masks and quarter masks - Requirements, testing, marking</i>
EN ISO 6941, <i>Textile fabrics - Burning behaviour - Measurement of flame spread properties of vertically orientated specimens</i>	MS 2291, <i>Textile fabrics - Burning behaviour - Measurement of flame spread properties of vertically orientated specimens</i>

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

UDC 614.894.73:620.1

Descriptors: Respiratory protective equipment, accident prevention, specifications, tests, marking

English version

Respiratory protective devices — Fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece assembly — Requirements, testing, marking

Appareils de protection respiratoire —
Appareils de protection respiratoire à air libre
avec masque complet, demi-masque ou
ensemble embout buccal — Exigences, essais,
marquage

Atenschutzgeräte —
Frischluf-Schlauchgeräte in Verbindung mit
Vollmaske, Halbmaske oder
Mundstückgarnitur — Anforderungen,
Prüfung, Kennzeichnung

This European Standard was approved by CEN on 1994-08-17. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 79, *Respiratory protective devices*, the Secretariat of which is held by DIN.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of the EC Directive(s).

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 1995, and conflicting national standards shall be withdrawn at the latest by February 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.