

MAURITIAN
STANDARD

MS 176:2019
(OIML R 87:2016)

Second edition
2019-04-27

Quantity of products in prepackages

ICS: 55.020



MS 176:2019 (OIML R 087:2016)

National foreword

This Mauritius Standard is identical with the OIML Recommendation (OIML R 87) on *Quantity of products in prepackages*. It was adopted by the Mauritius Standards Bureau on the recommendation of the Metrology Standards Committee through its Subcommittee on Labelling of Prepackaged Products. It was approved by the Standards Council on 28 March 2019 and was notified in the Government Gazette on 27 April 2019.

The text of the OIML R 87:2016, with the following deviations for Mauritius, has been approved as suitable for publication as a Mauritian Standard:

- (i) The word '*Recommendation/s*' has been replaced by '*Standard/s*'

The following Mauritian Standard is identical to the OIML Recommendation, which is referenced in the adopted standard:

OIML Recommendation

OIML R 87:2016

Corresponding Mauritian Standard

MS 176:2019 (OIML R 87:2016)

Quantity of products in prepackages.

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*Mauritius Standards Bureau
Villa Road
Moka
Mauritius*

Telephone + (230) 433 3648
Fax + (230) 433 5051/ 433 5150

E-mail msb@intnet.mu
Website <http://msb.intnet.mu>

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Foreword from OIML

The International Organization of Legal Metrology (OIML) is a worldwide, intergovernmental organization whose primary aim is to harmonize the regulations and metrological controls applied by the national metrological services, or related organizations, of its Member States. The main categories of OIML publications are:

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- **International Documents (OIML D)**, which are informative in nature and which are intended to harmonize and improve work in the field of legal metrology;
- **International Guides (OIML G)**, which are also informative in nature and which are intended to give guidelines for the application of certain requirements to legal metrology; and
- **International Basic Publications (OIML B)**, which define the operating rules of the various OIML structures and systems.

OIML Draft Recommendations, Documents and Guides are developed by Project Groups linked to Technical Committees or Subcommittees which comprise representatives from the Member States. Certain international and regional institutions also participate on a consultation basis. Cooperative agreements have been established between the OIML and certain institutions, such as ISO and the IEC, with the objective of avoiding contradictory requirements. Consequently, manufacturers and users of measuring instruments, test laboratories, etc. may simultaneously apply OIML publications and those of other institutions.

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Additionally, the OIML publishes or participates in the publication of **Vocabularies (OIML V)** and periodically commissions legal metrology experts to write **Expert Reports (OIML E)**. Expert Reports are intended to provide information and advice, and are written solely from the viewpoint of their author, without the involvement of a Technical Committee or Subcommittee, nor that of the CIML. Thus, they do not necessarily represent the views of the OIML.

This publication – reference OIML R 87, Edition 2016 (E) – was developed by Project Group 3 in Technical Committee TC 6 *Prepackaged products*. It was approved for final publication by the International Committee of Legal Metrology in 2016 and was submitted to the International Conference on Legal Metrology in 2016 for formal sanction. It supersedes the previous edition of R 87 dated 2004.

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Bureau International de Métrologie Légale
11, rue Turgot - 75009 Paris - France
Telephone: 33 (0)1 48 78 12 82
Fax: 33 (0)1 42 82 17 27
E-mail: biml@oiml.org
Internet: www.oiml.org

Quantity of product in prepackages

1 Scope

This Recommendation specifies

- legal metrology requirements for prepackaged products (also called prepackaged commodities or prepackaged goods) labeled in predetermined constant nominal quantities of mass, volume, linear measure, area, or count, and
- sampling plans and procedures for use by legal metrology officials in verifying the quantity of product in prepackages.

Note: The sampling plans are not recommended for use in the quantity control processes of the packer.

The following informative Annexes are also included:

- Annex A - an examination procedure outline where sampling is used;
- Annex B - procedures for determining average tare mass;
- Annex C - procedures for determining the drained quantity of products in liquid medium;
- Annex D - procedures for determining the actual quantity of frozen products;
- Annex E - requirements for prohibition of misleading prepackages;
- Annex F - basis for statistical sampling model used;
- Annex G - a schematic representation to explain the application of $T1$ and $T2$ errors;
- Annex H - an alternative sampling plan using a stepwise approach;
- Annex I - detailed sampling plans; and
- Annex J - references to documents mentioned.

2 Terminology

2.1 Definitions

2.1.1

actual quantity

amount of product that a prepackage contains as determined by measurement

Note: The actual quantity in a prepackage “i” is designated by the symbol Q_i or q_i .

2.1.2

error

2.1.2.1

average error

sum of individual prepackage errors considering their arithmetic signs divided by the number of prepackages in the inspection lot or sample

Note 1: The average error for all prepackages in a sample with sample size n is designated by the symbol e_{ave} .

Note 2: The average error for all prepackages in an inspection lot with N prepackages is designated by the symbol E_{ave} .