
Essential oils — General rules for packaging, conditioning and storage

*Huiles essentielles — Règles générales d'emballage, de conditionnement et
de stockage*



Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The main task of technical committees is to prepare International Standards, but in exceptional circumstances a technical committee may propose the publication of a Technical Report of one of the following types:

- type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;
- type 3, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example).

Technical Reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

ISO/TR 210, which is a Technical Report of type 2, was prepared by Technical Committee ISO/TC 54, *Essential oils*.

This document is being issued in the Technical Report (type 2) series of publications (according to subclause G.3.2.2 of part 1 of the ISO/IEC Directives, 1995) as a "prospective standard for provisional application" in the field of essential oils because there is an urgent need for guidance on how standards in this field should be used to meet an identified need.

This document is not to be regarded as an "International Standard". It is proposed for provisional application so that information and experience of its use in practice may be gathered. Comments on the content of this document should be sent to the ISO Central Secretariat.

A review of this Technical Report (type 2) will be carried out not later than three years after its publication with the options of: extension for another three years; conversion into an International Standard; or withdrawal.

This first edition of ISO/TR 210 cancels and replaces ISO/R 210:1961, which has been technically revised.

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1 Scope

This Technical Report describes the specifications to be met by the containers intended for containing essential oils, as well as recommendations relating to their conditioning and storage.

Essential oils are used for different purposes, as follows:

- food use;
- pharmaceutical use;
- perfumery and cosmetic use;
- reference samples or test samples;
- industrial raw materials.

According to the use of the essential oils, it is necessary to use appropriate containers which also meet the requirements of national, European or international regulations.

This Technical Report describes the materials to be used for the containers intended for containing essential oils, depending on the uses listed above. It also gives some general rules and recommendations relating to the properties of these containers and their conditioning and storage.

NOTE The information given in this Technical Report does not substitute for the regulations in force in the different countries.

2 Composition of the containers

2.1 General

Essential oils shall be packed in containers which, by their nature, do not cause alteration of the product and which protect it against any external attack.

Generally, the container materials shall be inert towards the packed product so as to prevent any simultaneous damage of the product and of the material.

2.2 Materials for containers intended for containing essential oils for food use

2.2.1 Glass (see reference [1])

Type II glass (soda-calcic glass, according to Pharmacopoeia standards), is advisable as it maintains unchanged the organoleptic properties of the essential oils.

Tinted anti-actinic glass is always recommended.