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Klinčki, celi in mleti (v prahu) - Specifikacija

Cloves, whole and ground (powdered) -- Specification

Clous de girofle entiers et clous de girofle en poudre - Spécifications

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International Standard



2254

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION●МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ ●ORGANISATION INTERNATIONALE DE NORMALISATION

Cloves, whole and ground (powdered) - Specification

Clous de girofle entiers et clous de girofle en poudre - Spécifications

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2254 was developed by Technical Committee ISO/TC 34, Agricultural food products, and was circulated to the member bodies in October 1978.

It has been approved by the member bodies of the following countries:

SIST ISO 2254

https://standards.iteh.ai/catalog/standards/sist/f22b1760-4a14-4d66-a8a9-Brazil

02441ab7 Spainist-iso-Bulgaria Israel Canada Kenya Sri Lanka Chile Korea, Rep. of Turkey

Czechoslovakia Mexico United Kingdom Egypt, Arab Rep. of Netherlands USA

Ethiopia Peru Yugoslavia France Poland Romania

The member body of the following country expressed disapproval of the document on technical grounds:

Thailand

International Organization for Standardization, 1980

Printed in Switzerland

Hungary

Cloves, whole and ground (powdered) - Specification

1 Scope and field of application

This International Standard specifies requirements for whole and ground (powdered) cloves [Eugenia caryophyllus (C. Sprengel) Bullock and Harrison].

Recommendations relating to storage and transport are given in the annex as a guide.

2 References

ISO 927, Spices and condiments — Determination of extraneous matter.

ISO 928, Spices and condiments - Determination of total ash siteh.ai

ISO 930, Spices and condiments — Determination of acidinsoluble ash. SIST ISO

https://standards.iteh.ai/catalog/standards/si ISO 939, Spices and condiments — Determination of meisturest-isocontent — Entrainment method.

ISO 948, Spices and condiments — Sampling.

ISO 1208, Ground spices — Determination of filth (Reference method). 1)

ISO 2825, Spices and condiments — Preparation of a ground sample for analysis.

ISO 5498, Agricultural food products — Determination of crude fibre content — General method.¹⁾

3 Definitions

- **3.1** whole clove: A floral bud, harvested before blooming, and dried, of *Eugenia caryophyllus* (C. Sprengel) Bullock and Harrison. It comprises a receptacle containing, in its upper part, two loculi containing numerous ovules, and crowned by four acute divergent sepals surrounding a dome-shaped head consisting of four paler unexpanded membranous imbricate petals enclosing numerous incurved stamens and a single stiff erect style (see figure 1).
- 3.2 headless clove: A clove consisting of only the receptacle and sepals and which has lost the dome-shaped head (see figure 2).
- 3.3 khoker clove: A clove which has undergone fermentation as a result of incomplete drying, as evidenced by its pale brown colour, whitish mealy appearance and, often, wrinkled surface on
- **3.4** mother clove: The fruit of the clove tree (*Eugenia caryophyllus*), which is in the form of an ovoid brown berry surmounted by four incurved sepals (see figure 3).
- **3.5** clove stem : A dry fragment of the stalk of the clove (see figure 4).
- **3.6** ground (powdered) clove: Powder obtained by grinding cloves without any addition.



Figure 1 - Whole clove



Figure 2 - Headless clove



Figure 3 - Mother clove



Figure 4 - Clove stem

¹⁾ At present at the stage of draft.

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4 Requirements

4.1 Odour and flavour

Whole or ground (powdered) cloves shall have a strong, aromatic, spicy odour and characteristic flavour. They shall be free from off-flavour, including mustiness.

4.2 Colour

- **4.2.1** Whole cloves shall be of a reddish-brown to blackish-brown colour.
- **4.2.2** Ground (powdered) cloves shall be of a brown colour with a violet tinge.

4.3 Freedom from moulds, insects, etc.

The cloves, whole or ground (powdered), shall be free from living insects and moulds, and shall be practically free from dead insects, insect fragments and rodent contamination visible to the naked eye (corrected if necessary, for abnormal vision), with such magnification as may be necessary in any particular case. If the magnification exceeds 10 X, this fact shall be stated in the test report.

4.5 Classification of whole cloves

Whole cloves shall be classified according to table 1.

Table 1 — Classification of whole cloves

Grade	Headless cloves % max.	Tendrils, mother cloves % max.	Khoker cloves % max.	Extraneous matter % max.
1 Special (Hand- picked)	2	0,5	0,5	0,5
· 2	5	: 4	3	1
3	*	· 6	5	1

* Not specified.

4.6 Chemical requirements¹⁾

4.6.1 Whole cloves

In case of dispute, contamination in ground (powdered) cloves are table 2 en. all comply with the requirements given in shall be determined by the method described in ISO 1208.

4.4 Extraneous matter

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https://standards.iteh.ai/catalog/standard.able221+7Chemical requirements for whole cloves

Extraneous matter includes the following:

- a) dirt, dust, mud, stones, pieces of wood, etc.;
- b) all the particles originating from the plant other than the cloves, tendrils and peduncles;
- c) exhausted cloves.

The proportion of extraneous matter in cloves, when determined by the method described in ISO 927, shall not exceed the value given in table 1 for the relevant grade.

02441ab78ec7/	SST-ISO-2254-1997 Characteristic	Require- ment	Method of test
er than the	Moisture % (<i>m/m</i>), max.	12	ISO 939
	Volatile oil ml/100 g on dry basis, min.		Method under consideration
hen deter-	— Grades 1 and 2— Grade 3	17* 15*	.

* Tentative value, pending preparation of method of test.

¹⁾ Limits for toxic substances will be included later, in accordance with the recommendations of the FAO/WHO Codex Alimentarius.

4.6.2 Ground (powdered) cloves

Ground (powdered) cloves shall comply with the requirements given in table 3.

Table 3 — Chemical requirements for ground (powdered) cloves

	Requirement				
Characteristic	Grade			Method of test	
	1	2	3		
Moisture % (m/m), max.	10	10	10	ISO 939	
Total ash % (m/m) on dry basis, max.	7	7	7	ISO 928	
Acid-insoluble ash % (m/m) on dry basis, max.	0,5	0,5	0,5	ISO 930	
Volatile oil ml/100 g on dry basis, min.	16*	16*	14*	Method under consideration	
Crude fibre % (m/m), max.	13	13 Te	13 h	1SO,5498	

7 Packing and marking

7.1 Packing

Whole or ground (powdered) cloves shall be packed in clean and sound containers, made of a material which does not affect the product and protects it from moisture and from the loss of volatile matter.

7.2 Marking

7.2.1 Whole cloves

The following particulars shall be marked or labelled on each container:

- a) name of the product, and the trade name or brand name, if any;
- b) name and address of the manufacturer or packer;
- c) batch or code number;

grade of the material:

d) net mass;

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Tentative value, pending preparation of method of test. dards.itef). producing country;

5 Sampling

Sample the cloves, whole or ground (powdered), by the method described in ISO 948.

Minimum mass of laboratory sample: 200 g.

6 Methods of test

The samples of cloves, whole or ground (powdered), shall be tested for conformity with the requirements of this International Standard by the methods of test indicated.

The ground sample for analysis shall be prepared in accordance with ISO 2825.

For determination of the total ash, use the method specified in ISO 928, but carry out the incineration at 600 \pm 25 °C.

254:1997g) any other marking required by the purchaser, such as year of harvest and date of packing (if known).

7.2.2 Ground (powdered) cloves

The following particulars shall be marked or labelled on each container:

- a) name of the product, and the trade name or brand name, if any;
- name and address of the manufacture or packer;
- c) batch or code number;
- d) net mass;
- e) any other marking required by the purchaser, such as year of harvest and date of packing (if known).

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Annex

Recommendations relating to storage and transport

- **A.1** The containers of cloves should be stored in covered premises, well protected from the sun, rain and excessive heat.
- ditions. In a storage warehouse, suitable facilities should be available for fumigation.
- **A.2** The store room should be dry, free from objectionable odours and proofed against entry of insects and vermin. The ventilation should be controlled so as to give good ventilation under dry conditions and to be fully closed under damp con-
- **A.3** The containers should be so handled and transported that they are protected from the rain, from the sun or other source of excessive heat, from objectionable odours and from cross-infestation, especially in the holds of ships.

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