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ICS 67.200

EAST AFRICAN STANDARD

Edible groundnut/Peanut oil — Specification

EAST AFRICAN COMMUNITY

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In order to achieve this objective, the Partner States in the Community through their National Bureaux of Standards, have established an East African Standards Committee.

The Committee is composed of representatives of the National Standards Bodies in Partner States, together with the representatives from the private sectors and consumer organizations. Draft East

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EAST AFRICAN STANDARD

Edible groundnut/Peanut oil — Specification

1. Scope

This East Africa standard specifies the requirements, sampling and test methods for edible groundnut/peanut oils derived from groundnuts (seeds of *Arachis hypogaea* L.) intended for human consumption.

2. Normative references

The following standards contain provisions, which, through reference in this text constitute provisions of this standard. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of that standard, parties to agreements based on this standard are encouraged to take steps to ensure the use of the most recent editions of the standard indicated below. Information on currently valid national and international standards may be obtained from the corresponding Bureaux of standards.

CXG 66, *Guidelines for the use of flavourings*

CXS 192, *General standard for food additives*

EAS 38, *Labelling of pre-packaged foods — General requirements*

EAS 39, *Hygiene in the food and drink manufacturing industry — Code of practice*

EAS 769, *Fortified edible fats and oils — Specification*

EAS 803, *Nutrition labelling — Requirements*

EAS 804, *Claims on foods — General requirements*

EAS 805, *Use of nutrition and health claims — Requirements*

ISO 660, *Animal and vegetable fats and oils — Determination of acid value and acidity*

ISO 661, *Animal and vegetable fats and oils — Preparation of test sample*

ISO 662, *Animal and vegetable fats and oils — Determination of moisture and volatile matter content*

ISO 663, *Animal and vegetable fats and oils — Determination of insoluble impurities content*

ISO 3596, *Animal and vegetable fats and oils — Determination of unsaponifiable matter — Method using diethyl ether extraction*

ISO 3657, *Animal and vegetable fats and oils — Determination of saponification value*

ISO 3960, *Animal and vegetable fats and oils — Determination of peroxide value — Iodometric (visual) endpoint determination*

ISO 3961, *Animal and vegetable fats and oils — Determination of iodine value*

ISO 5555, *Animal and vegetable fats and oils — Sampling*

ISO 6320, *Animal and vegetable fats and oils — Determination of refractive index*

3. Terms and definitions

3.1

edible groundnut oils

edible oil derived from the seeds of *Arachis hypogaea* L. and has the following synonymous names: peanut oil, arachis oil.

3.2

virgin groundnut/peanut oil

edible groundnut oil obtained without altering its nature that may be obtained by use of mechanical procedures such as expelling or pressing, with or without the application of heat and without the use of solvents

3.3

cold-pressed groundnut oil

virgin groundnut oil obtained without the application of heat

3.4

refined (non-virgin) groundnut oil

edible groundnut oil obtained by mechanical procedures and/or solvent extraction and subjected to refining processes

3.5

foreign matter

any undesirable material visible with naked eye in a packaged edible groundnut oil

3.6

food grade packaging material

packaging material, made of substances which are safe and suitable for the intended use, and which will not impart any toxic substance or undesirable odour or flavour to the product

4. Requirements

4.1. General requirements

Edible groundnut oil shall

- a) be obtained from groundnuts which are mature, clean and practically free from insect infestation;
- b) be free from foreign matter;
- c) be free from rancid or undesirable odour and/or taste;
- d) be free from admixture with other oils; and
- 1. e) have colour characteristic of groundnut oil.

4.2. Specific Requirements

4.2 Specific requirements
Edible groundnut oil shall comply with the specific requirements given in Table 1 when tested in accordance with the test methods specified therein.

Table 1 — Specific requirements for edible groundnut oil

S/N	Parameter	Requirement	Test method
i.	Moisture and volatile matter at 105 °C, % m/m, max.	0.2	ISO 662
ii.	Insoluble impurities, % m/m, max.	0.05	ISO 663
iii.	Soap content, % m/m, max.	0.005	ISO 10539
iv.	Acid value, mg/KOH/g max. - Virgin - Non-virgin (refined)	4.0 0.6	ISO 660
v.	Peroxide value, mEq oxygen/kg max. - Virgin - Non-virgin (refined)	15 10	ISO 3960
vi.	Iron (Fe), mg/kg, max. - Virgin - Non-virgin (refined)	5.0 1.5	ISO 21033
vii.	Copper, mg/kg, max. - Virgin - Non-virgin (refined)	0.4 0.1	
viii.	Iodine value, g I ₂ per 100 g	77 – 107	ISO 3961
ix.	Saponification value, mg KOH/g oil	187 – 196	ISO 3657
x.	Unsaponifiable matter, g/kg, max.	10	ISO 3596
xi.	Refractive index, at 40 °C	1.460 – 1.465	ISO 6320
xii.	Relative density at 20 °C	0.909 – 0.920	ISO 6883
xiii.	Colour units in a 25.4 mm Lovibond cell, max.	Red: 4 Yellow: 35	ISO 15305
xiv	Arachidic acid and higher fatty acids content, mg/kg, max.	48	EAS 307

2. **5. Fortification**

3. Edible groundnut oil may be fortified. When fortified, the product shall comply with EAS 769.

4. **6. Food additives**

5. Edible virgin groundnut oil shall not contain food additives.

6. Food additives when used in edible refined groundnut oil shall comply with CXS 192.

7. **7. Flavouring agents**

8. Edible virgin groundnut oil shall not contain flavouring agents.

9. Flavouring agents when used in edible refined groundnut oil shall comply with CXG 66.

10.

11. **8. Contaminants**

12. **8.1 Pesticide residues**

Edible groundnut oil shall comply with the maximum pesticide residue limits established by the Codex Alimentarius Commission for this commodity.

13. **8.2 Heavy metals**

Edible groundnut oil shall comply with the maximum limits for heavy metals given in Table 2 when tested in accordance with the test methods specified therein.

Table 2 — Limits for heavy metals in groundnut oil

S / N	Contamina nt	Limit mg/kg, max.	Test method
i.	Lead (Pb)	0.08	ISO 12193
ii.	Arsenic (As)	0.1	ISO 13547-2

14.

15. **8.3 Aflatoxins**

16. Aflatoxin levels in edible groundnut oil shall not exceed the limits given in Table 3 when tested in accordance

with the test method specified therein.

17.

18. **Table 3 — Aflatoxin limits for edible groundnut oil**

S/ N	Paramet er	Limit µg/kg, max.	Test method
i.	Total aflatoxin	10	ISO 16050
ii.	Aflatoxin B1	5	

19.

19.

19.

20. **9. Hygiene**

21. Edible groundnut oil shall be produced, processed, handled and stored in accordance with EAS 39.

22. **10. Packaging**

23. Edible groundnut oil shall be packaged in food grade packaging material and sealed in a manner that safeguards the hygienic, nutritional and organoleptic properties of the product.

24. **11. Labelling**

25. In addition to the labelling requirements specified in EAS 38, the following information shall be legibly and indelibly labelled:

26. a) name of the product as “groundnut oil” or “peanut oil” or “arachis oil”;

27. b) type of the oil as:

- i) virgin;
- ii) cold-pressed; or
- iii) non-virgin (refined).

28. **12. Nutrition and health claims**

29. Edible groundnut oil may have claims on nutrition and health. Such claims when made shall comply with EAS 803, EAS 804 and EAS 805.

30. **13. Sampling**

31. Sampling and sample preparation for testing shall be done in accordance with ISO 5555 and ISO 661, respectively.

Annex A
(informative)

GLC Fatty acid composition

When required the fatty acid profile should be determined by Gas Liquid Chromatography. Ranges of fatty acids are given in Table A.1 for information

Table A.1 — Fatty acid composition for edible groundnut oil

Carbon configuration	Composition %
C6:0	ND
C8:0	ND
C10:0	ND
C12:0	ND–0.1
C14:0	ND–0.1
C16:0	5.0–14.0
C16:1	ND–0.2
C17:0	ND–0.1
C17:1	ND–0.1

C18:0	1.0–4.5
C18:1	35.0–80
C18:2	4.0–43.0
C18:3	ND–0.5
C20:0	0.7–2.0
C20:1	0.7–3.2
C20:2	ND
C22:0	1.5–4.5
C22:1	ND–0.6
C22:2	ND
C24:0	0.5–2.5
C24:1	ND–0.3
ND – non detectable, defined as $\leq 0.05\%$	

Bibliography

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2. IS 11069:1984, Specifications for Refined, bleached, hydrogenated, winterised and deodorised (RBHWD) soybean oil. Indian Standards Institution.
3. IS 11476:1985, Glossary of terms related to fats and oils. Indian Standards Institution.
4. IS 11068:1984, Criteria for Edibility of fats and oils. Indian Standards Institution.

