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## **DRAFT EAST AFRICAN STANDARD**

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**Groundnut (peanut) oil for cosmetic industry - Specification**

**EAST AFRICAN COMMUNITY**

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## Foreword

Development of the East African Standards has been necessitated by the need for harmonizing requirements governing quality of products and services in the East African Community. It is envisaged that through harmonized standardization, trade barriers that are encountered when goods and services are exchanged within the Community will be removed.

In order to achieve this objective, the Community established an East African Standards Committee mandated to develop and issue East African Standards.

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 African Standards are circulated to stakeholders through the National Standards Bodies in the Partner States. The comments received are discussed and incorporated before finalization of standards, in accordance with the procedures of the Community.

East African Standards are subject to review, to keep pace with technological advances. Users of the East African Standards are therefore expected to ensure that they always have the latest versions of the standards they are implementing.



# Groundnut (**peanut**) oil for cosmetic industry- Specification

## 1 Scope

This Draft East African Standard specifies the requirements and methods of sampling and test for ground nut (peanut) oil for cosmetic industry.

## 2. Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies

ISO 24153, Random sampling and randomisation procedures

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

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

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

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

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

DEAS 847- 2, Determination of Moisture Content and volatile matter

DEAS 847- 4, Determination of Acid Value and free fatty acids

DEAS 847- 5, Determination of unsaponifiable matter

DEAS 847- 7, Determination of Specific Gravity

DEAS 847- 9, Determination of colour

DEAS 847- 12, Determination of flash point by Pensky – Martens closed cap tester

DEAS 847- 13, Determination of rancidity

DEAS 847- 16, Determination of Heavy metal Content

### 3.Terms and definitions

Ground nut oil

an oil obtained from high quality groundnuts (*Arachis hypogaea* Linn., fam. Leguminocae) by a process of expression or solvent extraction using solvent hexane.

## 2 REQUIREMENTS

### 2.1 General requirements

2.1.1 The oil shall be refined by neutralization with alkali, bleached with bleaching earth or activated carbon or both and deodorized with steam. The oil shall be practically odourless or have a very mild odour characteristic of groundnut oil.

2.1.2 When examined visually the oil shall be clear and free from sediments and foreign matter.,

2.1.3 The groundnut oil shall be free from admixture with other oils.

### 2.2 Specific requirements

The oil shall also comply with the requirements given in Table 1.,

**TABLE 1. SPECIFIC REQUIREMENTS FOR GROUNDNUT OIL FOR COSMETIC INDUSTRY**

SL No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST IN
1	2	3	4
(i)	Moisture content, % by mass, max.	0.5	DEAS 847- 2
(ii)	Insoluble impurities, % by mass, max.	0.2	ISO 663
(iii)	Colour in a 1" cell on the lovibond scale, expressed as Y + 5R, max. deepness	3	DEAS 847- 9
(iv)	Refractive index at 40 <sup>0</sup> C	1.462 0 to 1.465 0	ISO 6320
(v)	Specific gravity at 30/30 <sup>0</sup> C	0.909 to 0.913	DEAS 847- 7
(vi)	Specification value, range	188 to 196	-
(vii)	Iodine value (Wij's)	85 to 100	ISO 3961
(viii)	Acid value, max.	0.5	DEAS 847- 4
(ix)	Unsaponifiable matter, % by mass, max.	1.0	DEAS 847- 5
(x)	Flash point, min., <sup>0</sup> C (Pensky Martens closed)	250	DEAS 847- 12
(xi)	Test for rancidity	shall be free from rancidity	DEAS 847- 13

The products shall comply with the limits for heavy metal contaminants in accordance with Table 2.

**Table 2 — Limits for heavy metal contaminants**

<b>S/N</b>	<b>Characteristic</b>	<b>Limit</b>	<b>Method of test</b>
i.	Lead, ppm, max	20	DEAS 847- 16
ii.	Arsenic, ppm, max	2	DEAS 847- 16
iii.	Total amount of heavy metals ppm,max	20	DEAS 847- 16

**NOTE** The total amount of heavy metals as lead, mercury and arsenic, in combination, in the finished product should not exceed 20 ppm.

### **3. PACKAGING AND LABELLING**

#### **3.1 PACKAGING**

The groundnut oil shall be packaged in suitable well-sealed containers that shall protect the contents and shall not cause any contamination or react with the products.

properly closed containers, which shall not cause product deterioration.

#### **3.2. LABELLING**

The labelling shall be in English, Kiswahili or French or in combination as agreed between the manufacturer and supplier.

The labelling shall comply with the requirements of DEAS 346. In addition, each package shall be legibly and indelibly marked with the following:

- a) the name 'Groundnut Oil for Cosmetic Industry',
- b) manufacturer's name and/or recognized trade mark, if any,
- c) mass or volume or net content,
- d) batch number.
- e) Expiry Date

**3.2.1** In addition, the words 'FOR EXTERNAL USE ONLY' shall be conspicuously marked (either printed on the label affixed to the container or lithographed or stencilled thereon with indelible ink).

### **4. Sampling**

Random samples of the product shall be drawn for test in accordance with ISO 24153 from the market, factory or elsewhere





PUBLIC REVIEW DRAFT FOR COMMENTS