

DRAFT UGANDA STANDARD

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Sunflower seed — Specification

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Foreword

Uganda National Bureau of Standards (UNBS) is a parastatal under the Ministry of Trade, Industry and Cooperatives established under Cap 327, of the Laws of Uganda, as amended. UNBS is mandated to coordinate the elaboration of standards and is

- (a) a member of International Organisation for Standardisation (ISO) and
- (b) a contact point for the WHO/FAO Codex Alimentarius Commission on Food Standards, and
- (c) the National Enquiry Point on TBT Agreement of the World Trade Organisation (WTO).

The work of preparing Uganda Standards is carried out through Technical Committees. A Technical Committee is established to deliberate on standards in a given field or area and consists of key stakeholders including government, academia, consumer groups, private sector and other interested parties.

Draft Uganda Standards adopted by the Technical Committee are widely circulated to stakeholders and the general public for comments. The committee reviews the comments before recommending the draft standards for approval and declaration as Uganda Standards by the National Standards Council.

The committee responsible for this document is Technical Committee UNBS/TC 2, *Food and agriculture*, Subcommittee SC2, Edible oilseeds, fats and oils.

This the second edition (DUS 616:2019), cancels and replaces US 616:2006, which has been technically revised.

Sunflower seed — Specification

1 Scope

This Draft Uganda standard specifies the requirements, sampling and test methods for sunflower seed (*Helianthus annuus* L.) for further processing.

2 Normative references

The following referenced documents referred to in the text in such a way that some or all of their content constitutes requirements 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.

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

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

US 246, Woven bags made from natural fibres for cereals and pulses — Specification

US ISO 542, Oilseeds — Sampling

US ISO 658, Oilseeds — Determination of content of impurities

US ISO 665, Oilseeds — Determination of moisture and volatile matter content

US 1659, Materials in contact with food — Requirements for packaging materials

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

damaged sunflower seed

sunflower seed and pieces of sunflower seed that are badly ground-damaged, badly weather-damaged, diseased, frost-damaged, heat-damaged, mould-damaged, sprout-damaged, pest damaged or otherwise materially-damaged of which the kernel is visibly discoloured

3.2

dehulled seed

sunflower seed that has the hull completely removed from the sunflower kernel

3.3

foreign matter (impurities)

all matter other than whole sunflower seeds containing kernels, dehulled sunflower seeds.

3.4

hull (husk)

ovary wall of the sunflower seed

3.5

kernel

interior contents of the sunflower seed that are surrounded by the hull

3.6

noxious seeds

seeds or part of seeds of a plant species that may represent a hazard to human or animal health when consumed, including seeds of *Argemone mexicana* L., *Convolvulus* spp., *Crotalaria* spp., *Datura* spp., *Ipomoea* spp., *Lolium temulentum*, *Ricinus communis* or *Xanthium* spp.

4 Requirements

4.1 general requirements

Sunflower seeds shall:

- a) be free from any substance that renders it unsafe or unsuitable for human or animal consumption
- b) be free from musty, sour, or other undesirable odour;
- c) be free from foreign matter such as glass, metal, stones or dung;
- d) be free from insects; and
- e) contain no more than five noxious seeds per 400 g of which no more than one may be of *Crotalaria* species and of which none may be of *Ricinus communis*.

4.2 Specific requirements

When tested according to the methods specified therein, the sunflower seeds shall not exceed the limits prescribed in Table 1.

Table 1 — Specific requirements for sunflower seeds

s/n	Requirement,	Limits , % by mass/mass	Method of test
i	Moisture content, max	12	US ISO 665
ii	Damaged sunflower seeds, max.	10	Annex B
iii	Foreign matter, max.	5	US ISO 658

5 Contaminants

5.1 Heavy metals

Sunflower seeds shall comply with those maximum residue limits established by the Codex Alimentarius Commission for this commodity.

5.2 Pesticides and veterinary drug residues

Sunflower shall comply with the maximum residue limits for pesticides and veterinary drug residues set by the Codex Alimentarius Commission.

5.3 Aflatoxin

Total Aflatoxin shall not exceed 10 µg/kg while aflatoxin B1 shall not exceed 5 µg/kg when tested in accordance with ISO 16050

6 Hygiene

Sunflower seeds shall be produced, prepared and handled in accordance with US EAS 39.

7 Packaging

Sunflower seeds shall be packaged in containers made from food grade packaging material and sealed in a manner that will safeguard the hygienic, nutritional and organoleptic properties of the product throughout the shelf life of the product

8 Weights and measures

Minced meat shall be packaged in accordance with the national Weights and measures legislation.

9 Labelling

In addition to the requirements of US EAS 38, the following labelling requirements shall apply and shall be legibly and indelibly marked.

- a) common name of the product as "Sunflower seed "
- b) name, address and physical location of manufacturer/vendor;
- c) country of origin/manufacture;
- d) net weight in grams or kilograms;
- e) storage instructions.
- f) crop year
- g) batch number /code /lot number; and
- h) instructions for disposal of used package.

10 Sampling

Sampling for sunflower shall be done according to US ISO 542.

PUBLIC REVIEW DRAFT JULY 2019

Bibliography

US 616— *Sunflower seed- Specification*

PUBLIC REVIEW DRAFT JULY 2019

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PUBLIC REVIEW DRAFT JULY 2019

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