

**ETHIOPIAN
STANDARD**

ES 6795:2021

**Packaging standard for fruits and vegetables
products**

ICS: 67.200.10

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Forward

This Ethiopian Standard has been prepared under the direction of the Technical Committee for Fruit and vegetable (TC 13) and published by the Ethiopian Standards Agency (ESA).

The standard has been developed to address observed needs and to support the local industry and exporter in order to make progress through up raising competitiveness and maintain comparative market advantage both domestically and internationally.

In the preparation of this standard reference has been made to the following:

- Ministry of health and family welfare, New Delhi, 1st August, 2011, Food Safety and Standards Authority of India.

Acknowledgement is made for the use of information from the above publications.

Packaging standard for fruits and vegetables products

1. Scope

This Ethiopian Standard specifies the requirement for Packaging standard for fruits and vegetables products

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.

CES 17, Refined sun flower seed oil Specification.

ES 6532, Crude Soyabean Oil Specification.

ES 56, Animal and vegetable fats and oils - Determination of relative density.

ES 65, Animal and vegetable fats and oils - Determination of soap content

CES 73, General standard for pre-packaged foods labeling.

ES 577, Recommended code of practice - General principles of food hygiene.

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

ES ISO 661, Animal and vegetable fats and oils - Preparation of test sample.

ES ISO 662, Animal and vegetable fats and oils - Determination of moisture and volatile matter content.

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

ES 929, Code of practice -food hygiene management.

ES 953, Good manufacturing practice (GMP) for food processing companies.

ES ISO 2590, General method for the determination of arsenic-silver diethyldithiocarbamate photometric method.

ES 3359, General standard for the labeling of and claims for prepackaged foods for special dietary uses.

ES ISO 3596, Animal and vegetable fats and oils - Determination of unsaponifiable matter — Method using diethyl ether.

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

ES ISO 3960, Animal and vegetable fats and oils - Determination of peroxide value — Iodometric (visual) end point determination.

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

ES ISO 5555, Animal and vegetable fats and oils - Sampling.

3. Terms and definitions

For the purpose of this standard, the following terms and definitions shall apply.

3.1

best before

means the date which signifies the end of the period under any stated storage conditions during which the food shall remain fully marketable and shall retain any specific qualities for which tacit or express claims have been made and beyond that date, the food may still be perfectly safe to consume, though its quality may have diminished. However the food shall not be sold if at any stage the product becomes unsafe.

3.2

date of manufacture

means the date on which the food becomes the product as described

3.3

lot number” or “code number” or “batch number”

means the number either in numerical or alphabets or in combination thereof, representing the lot number or code number or batch number, being preceded by the words “Lot No” or “Lot” or “code number” or “Code” or Batch No” or “Batch” or any distinguishing prefix by which the food can be traced in manufacture and identified in distribution.

3.4

multi-piece package

means a package containing two or more individually packaged or labeled pieces of the same commodity of identical quantity, intended for retail either in individual pieces or packages as a whole.

3.5

repackaged” or “Pre-packed food

means food which is placed in a package of any nature, in such a manner that the contents cannot be changed without tampering it and which is ready for sale to the consumer.

3.6

Use – by date” or “Recommended last consumption date” or “Expiry date”

means the date which signifies the end of the estimated period under any stated storage conditions, after which the food probably will not have the quality and safety attributes normally expected by the consumers and the food shall not be sold.

4. Requirements

4.1 General Requirements

4.1.1 A utensil or container made of the following materials or metals, when used in the preparation, packaging and storing of food shall be deemed to render it unfit for human consumption:—

- (a) Containers which are rusty;
- (b) enameled containers which have become chipped and rusty;

(c) Copper or brass containers which are not properly tinned

(d) Containers made of aluminium not conforming in chemical composition to IS: 20 specification for Cast Aluminium & Aluminium Alloy for utensils or IS:21 specification for Wrought Aluminium and Aluminium Alloy for utensils.

4.1.2 Containers made of plastic materials should conform to the following Ethiopian Standards Specification, used as appliances or receptacles for packing or storing whether partly or wholly, food articles namely :

ES ISO: 10146 (Specification for Polyethylene in contact with foodstuffs)

ES ISO: 10142 (Specification for Styrene Polymers in contact with foodstuffs)

ES ISO: 10151 (Specification for Polyvinyl Chloride (PVC), in contact with foodstuffs)

ES ISO: 10910 (Specification for Polypropylene in contact with foodstuffs)

ES ISO: 11434 (Specification for Ionomer Resins in contact with foodstuffs)

ES ISO: 11704 Specification for Ethylene Acrylic Acid (EAA) copolymer

ES ISO: 12252 - Specification for Poly alkylene terephthalates (PET)

ES ISO: 12247 - Specification for Nylon 6 Polymer

ES ISO: 13601 - Ethylene Vinyl Acetate (EVA)

ES ISO: 13576 - Ethylene Methacrylic Acid (EMAA)

Tin and plastic containers once used, shall not be re-used for packaging of edible oils and fats

4.2 Specific requirements

4.2.1 Every container in which any fruit product is packed shall be so sealed that it cannot be opened without destroying the labelling information of the manufacture to be displayed on the top or neck of the package.

4.2.2 For canned fruits, juices and vegetables, sanitary top cans made up of suitable kind of tin plates shall be used.

4.2.3 For bottled fruits, juices and vegetables, only bottles/ jars capable of giving hermetic seal shall be used bottles securely sealed. These products when frozen and sold in the form of ice shall be packed in suitable cartons. Juices and Pulps may be packed in wooden barrels when sulphited.

4.2.4 For packing Preserves, Jams, Jellies, and Marmalades, new cans, clean jars, new canisters, bottles, chinaware jars, aluminium containers may be used and it shall be securely sealed.

4.2.5 For Pickles, clean bottles, jars, wooden casks, tin containers covered from inside with polythene lining of 250 gauge or suitable lacquered cans shall be used.

4.2.6 For Tomato Ketchups and Sauces, clean bottles shall be used. If acidity does not exceed 0.5% as acetic acid, open top sanitary cans may also be used.

4.2.7 Candied fruits and peels and dried fruits and vegetables can be packed in paper bags, cardboard or wooden boxes, new tins, bottles, jars, aluminium and other suitable approved containers.

4.2.8 Fruits and Vegetable products can also be packed in aseptic and flexible packaging material having good grade quality conforming to the standards laid down by Ethiopian Standards.

Organization and Objectives

The Ethiopian Standards Agency (ESA) is the national standards body of Ethiopia established in 2010 based on regulation No. 193/2010. ESA is established due to the restructuring of Quality and Standards Authority of Ethiopia (QSAE) which was established in 1998.

ESA's objectives are:-

- ❖ Develop Ethiopian standards and establish a system that enable to check whether goods and services are in compliance with the required standards,
- ❖ Facilitate the country's technology transfer through the use of standards,
- ❖ Develop national standards for local products and services so as to make them competitive in the international market.

Ethiopian Standards

The Ethiopian Standards are developed by national technical committees which are composed of different stakeholders consisting of educational Institutions, research institutes, government organizations, certification, inspection, and testing organizations, regulatory bodies, consumer association etc. The requirements and/or recommendations contained in Ethiopian Standards are consensus based that reflects the interest of the TC representatives and also of comments received from the public and other sources. Ethiopian Standards are approved by the National Standardization Council and are kept under continuous review after publication and updated regularly to take account of latest scientific and technological changes. Orders for all Ethiopian Standards, International Standard and ASTM standards, including electronic versions, should be addressed to the Documentation and Publication Team at the Head office and Branch (Liaisons) offices. A catalogue of Ethiopian Standards is also available freely and can be accessed from our website.

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International Involvement

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