

KENYA STANDARD

KS EAS 61: 2014
ICS 67.160.10

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Opaque beer — Specification

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Second Edition 2015

KS EAS 61: 2014

TECHNICAL COMMITTEE REPRESENTATION

The following organizations were represented on the Technical Committee:

Ministry of Health — Public Health Department
Government Chemist's Department
London Distillers Ltd.
(UDV) Kenya Ltd.
Kenya Wine Agencies Ltd.
East African Breweries Ltd.
Keroche Industries Ltd.
Africa Spirits Ltd.
Institute of Packaging, Kenya
Spectre International Ltd.
Agro-Chemical (K) Ltd.
National Campaign against Drug Abuse (NACADA)
Consumer Information Network
Weight and Measures Department
Kenya Revenue Authority
Kenya Bureau of Standards — Secretariat

REVISION OF KENYA STANDARDS

In order to keep abreast of progress in industry, Kenya Standards shall be regularly reviewed. Suggestions for improvements to published standards, addressed to the Managing Director, Kenya Bureau of Standards, are welcome.

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Opaque beer — Specification

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NATIONAL FOREWORD

This Kenya Standard was prepared by the Alcoholic Beverages Technical Committee under the guidance of the Standards Projects Committee, and it is in accordance with the procedures of the Kenya Bureau of Standards.

This standard is identical with and has been reproduced from EAS 61, Opaque beer — Specification, published by the East African Community (EAC). The National Standards Council has endorsed the adoption of the 2014 edition of this standard as a Kenya Standard.

For the purposes of this standard, the text of the East African Standard should be modified as follows:

a) Terminology

The words 'this Kenya Standard' should replace the words 'this East African Standard', wherever they appear.

b) References

The references to East African Standards should be replaced by references to the appropriate Kenya Standards, where they have been declared.



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EAST AFRICAN STANDARD

Opaque beer — 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.

EAS 61 was prepared by Technical Committee EASC/TC 007, *Alcoholic and non-alcoholic beverages*.

This second edition cancels and replaces the first edition EAS 61:2000, which has been technically revised.

Opaque beer — Specification

1 Scope

This East African Standard specifies the requirements and methods of sampling and test for opaque beer. The standard does not cover stout beer.

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.

CODEX STAN 192, *Codex general standard for food additives*

EAS 5, *Refined white sugar — Specification*

EAS 38, *Labelling of prepackaged foods — Specification*

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

EAS 100, *Food stuffs — Methods of determination of Lead*

ISO 1842, *Fruit and vegetable products — Determination of pH*

ISO 4832, *Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique*

ISO 4833-1, *Microbiology of the food chain — Horizontal method for the enumeration of micro-organisms — Part 1: Colony-count at 30 degrees C — Pour plate technique*

ISO 6461-2, *Water quality — Detection and enumeration of the spores of sulphite-reducing anaerobes (Clostridia) — Part 2: Method by membrane filtration*

ISO 6634, *Fruits, vegetables and derived products — Determination of arsenic content — Silver diethyldithiocarbamate spectrophotometric method*

ISO 16050, *Foodstuffs Determination of aflatoxin B₁, and the total content of aflatoxins B₁, B₂, G₁ and G₂ in cereals, nuts and derived products — High-performance liquid chromatographic method*

3 Terms and definitions

For the purposes of this standard, the following term and definition shall apply.

opaque beer

potable liquid derived from the fermentation of a mash of cereal grain, and /or other products of plant origin, with or without honey, sugar or a mixture of any of these; containing the mash or the residual mash from which it is derived

4 Requirements

4.1 General requirements

Opaque beer shall:

- a) be free from any harmful ingredients, substances, additives and any other contaminants injurious to health or any extraneous matter;
- b) be free from any added artificial colouring matter, apart from caramel derived from white sugar complying with relevant East African standards;
- c) be free from artificial sweetening agents;
- d) not contain any added alcohol;
- e) not show a separation of more than 20 % of solid phase; and
- f) have the characteristic appearance, taste and aroma of their type.

4.2 Specific quality requirements

Opaque beer shall comply with the quality requirements specified in Table 1.

Table 1 — Quality requirements for opaque beer

S/No.	Characteristic	Requirement	Test method
i.	Ethyl alcohol content, %, v/v	1.5 - 8.0	EAS 104
ii.	pH	2.5 - 5.0	ISO 1842
iii.	Soluble solids content, %, m/v	3.0 - 6.0	EAS 104
iv.	Specific gravity at 20 °C	1.005 - 1.045	
v.	Total solid, %, m/v.	4.0 - 9.0	
vi.	Total acidity as tartaric acid, g/100 L, max.	0.55	
vii.	Volatile acidity as acetic acid, g/100 L, max.	0.6	

5 Food additives

Food additives may be used in the preparation of opaque beer in accordance with CODEX STAN 192.

6 Contaminants

6.1 Pesticide residues

All the raw materials used in the production of opaque beer shall comply with the maximum residue limits for pesticides as established by the Codex Alimentarius Commission.

6.2 Heavy metals

Opaque beer shall not contain heavy metals at levels exceeding the limits indicated in Table 2.

Table 2 — Limits for heavy metal contaminants in opaque beer

S/No.	Type of impurity	Limit	Test method
i.	Arsenic (as As), mg/L, max.	0.01	ISO 6634
ii.	Lead (as Pb), mg/L, max.	0.01	EAS 100

6.3 Aflatoxin limits

Total aflatoxin shall not exceed 10 µg/L and aflatoxin B₁ shall not exceed 5 µg/L when tested in accordance with ISO 16050.

7 Hygiene

Opaque beer shall be manufactured and handled in a hygienic manner in accordance with EAS 39 and shall conform to the microbiological limits stipulated in Table 3.

Table 3 — Microbiological limits for opaque beer

S/No.	Organism	Maximum limit	Test method
i.	Coliforms, cfu/mL	Nil	ISO 4832
ii.	Total viable count, cfu/mL, max.	10 ²	ISO 4833-1

8 Weights and measures

The volume and fill of opaque beer shall comply with the Weights and measures regulations' of Partner States or equivalent legislation.

9 Packaging

9.1. Opaque beer shall be packaged in suitable food grade containers.

9.2 Opaque beer shall be packaged for bulk delivery and storage in containers that shall prevent contamination of the product and preserve its safety and quality.

10 Labelling

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

- a) name of the product as "Opaque beer";
- b) name and physical and postal address of manufacturer;
- c) net contents in millilitres or litres;
- d) minimum ethyl alcohol content at the time of packing;
- e) date of manufacture;

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- f) best before date;
- g) storage instruction;
- h) statutory warnings; and
- i) list of ingredients.

7 Sampling and test

Sampling and testing of opaque beer shall be done in accordance with EAS 104.

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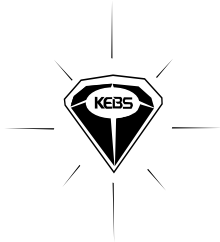
KEBS CERTIFICATION MARKS

1. Product Certification Marks



KEBS Standardization Mark (S-Mark) is issued for use on products that comply with the minimum quality requirements prescribed in Kenya standards. It uses standards as a benchmark for quality compliance and aims at giving manufacturers improved market access and also giving consumers an assurance of quality for the products bearing the mark.

Standardization Mark
SYMBOL FOR PRODUCT QUALITY



Diamond Mark of Quality
SYMBOL FOR PRODUCT QUALITY EXCELLENCE



Import Standardization Mark
SYMBOL FOR PRODUCT QUALITY

2. Systems Certification Marks



ISO 9001 REGISTERED FIRM
QUALITY MANAGEMENT SYSTEM



OCCUPATIONAL HEALTH AND SAFETY
OHSAS 18001 CERTIFIED



ISO 14001 REGISTERED FIRM
ENVIRONMENTAL MANAGEMENT SYSTEM



ISO 22000 REGISTERED FIRM
FOOD & SAFETY MANAGEMENT SYSTEM

KEBS is mandated to provide Standardization, Metrology and Conformity Assessment Services through:

- Promotion of standardization in commerce and industry
- Provision of testing and calibration facilities
- Control of the use of standardization marks
- Undertaking educational work in standardization
- Facilitation of the implementation and practical application of standards
- Maintenance and dissemination of the International System of Units (SI) of measurements

KEBS offers the following services:

- Standards development and harmonization
- Testing services
- Measurement services (Calibration)
- Enforcement of standards
- Product inspection services
- Education and Training in Standardization, Metrology and Conformity Assessment
- Product and Management Systems Certification Services

INFORMATION ON STANDARDS

Standards are documents that provide a common reference point for the assessment of the quality of goods and services. Standards facilitate transparency in the exchange of products and enhance market access of Kenyan products into local, regional and international markets.

Information on standards and related documents is available at the KEBS standards information centre.

KEBS houses the WTO-TBT National Enquiry Point (NEP) which disseminates notification likely to affect international trade to the industry.

KEBS also provides technical advice on installation and improvement of quality goods and services to the industry so as to facilitate efficient implementation of standards. Some of the advantages of standards include: enhancement of quality assurance, safety and environmental protection measures, minimization of wastage, reduction of costs and unnecessary varieties and promotion of interchangeability and increased productivity in industry.

For further information please contact

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