

DRAFT KENYA STANDARD

KS 2405: 2015
ICS 67.140.10

Instant tea — Specification

TECHNICAL COMMITTEE REPRESENTATION

The following organizations were represented on the Technical Committee:

Agriculture, Fisheries and Food Authority- Tea Directorate
Kenya Agriculture and livestock Research organization-Tea Research Institute
Egerton University
Karatina University
Finlays
Melvin Marsh International Ltd
State Department of Agriculture
Kenya Tea Development Agency Ltd.
East African Tea Trade Association
Institute of packaging of Kenya
Ministry of Industrialization & Enterprise Development
Ministry of Health
Government Chemists' Department
Kenya Tea Packers Ltd.
Consumer Information Network
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.

© Kenya Bureau of Standards, 2015

Copyright. Users are reminded that by virtue of Section 25 of the Copyright Act, Cap. 12 of 2001 of the Laws of Kenya, copyright subsists in all Kenya Standards and except as provided under Section 26 of this Act, no Kenya Standard produced by Kenya Bureau of Standards may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from the Managing Director.

DRAFT KENYA STANDARD

KS 2405: 2015
ICS 67.140.10

Instant tea — Specification

KENYA BUREAU OF STANDARDS (KEBS)

Head Office: P.O. Box 54974, Nairobi-00200, Tel.: (+254 020) 605490, 602350, Fax: (+254 020) 604031
E-Mail: info@kebs.org, Web:<http://www.kebs.org>

Coast Region

P.O. Box 99376, Mombasa-80100
Tel.: (+254 041) 229563, 230939/40
Fax: (+254 041) 229448

Lake Region

P.O. Box 2949, Kisumu-40100
Tel.: (+254 057) 23549, 22396
Fax: (+254 057) 21814

Rift Valley Region

P.O. Box 2138, Nakuru-20100
Tel.: (+254 051) 210553, 210555

Foreword

This Kenya Standard for Instant Tea has been prepared by the Tea Technical Committee under the guidance of the Standards Project Committee and it is in accordance with the procedures of the Kenya Bureau of Standards.

The standard was revised to accommodate technological changes in the manufacture of instant tea, and to differentiate instant teas according to their solubility in water.

During the preparation of this standard, reference was made to the following documents:

ISO 6079: Instant tea in solid form-Specification

KS 2405:2013 Pure Instant Tea- Specification

Acknowledgement is hereby made for the assistance derived from these sources.

Instant tea — Specification

1 Scope

This Kenya Standard specifies the requirements and prescribes the methods for sampling and test of instant tea of the species *Camellia sinensis* (Linnaeus) O. Kuntze.

2 Normative references

ISO 1839, *Sampling of tea*

KS EAS 38, *Labelling of prepackaged foods*

KS EAS 39, *Code of practice for food and drink*

KS 1927, *Tea packets and containers — Specification*

KS 2404, *Tea- raw materials for extraction*

KS 660, Guide to safe use of food additives

3 Definitions

For purposes of this standard, the following definitions shall apply:

3.1 Instant tea

dried tea in the form of free-flowing powder and soluble in water produced by acceptable processes from wholesome leaves and tender shoots of any of the varieties of the species *Camellia sinensis* (L.) Kuntze, known to be suitable for making tea for consumption as a beverage

3.2 Tea plant material

wholesome fresh leaves, buds and shoots of the varieties of *Camellia sinensis* (L.) Kuntze, suitable for making tea for consumption as beverage

3.3 Processed tea

products derived solely and exclusively, and produced by acceptable processes for making white, black and green tea, notably withering, enzyme inactivation, maceration, aeration and drying of tender tea leaves, buds and shoots of varieties of the species *Camellia sinensis* (L.) Kuntze, known to be suitable for making tea for consumption as a beverage

3.4

Foreign matter

any material which is not tea leaf or fragments of tea plant e.g. sand, stones, metallic chips and any organic matter

3.5

contaminants

any physical or chemical agent, foreign matter, or any other substances not intentionally added to food which may compromise food safety or suitability

3.6 adulterant

any material intentionally introduced that changes the original composition of a product.

3.7 filth

any material such as but not limited to insects, vermin, hair, or pests and their derivatives.

4 Requirements

4.1 General requirements

Instant tea shall comply with the following:

- 4.1.1 Shall be of uniform colour
- 4.1.2 Shall be of typical texture and appearance.
- 4.1.3 Shall have a typical flavour and taste.
- 4.1.4 Shall be free from unpleasant or repulsive odours but may have a typical aroma.
- 4.1.5 Shall be free from all contaminants, filth and adulterants.
- 4.1.6 Shall be free from extraneous and foreign matter.
- 4.1.7 Shall be practically soluble in water

4.2 Compositional quality requirements/limits

4.2.1 The instant tea shall comply with the requirements/limits specified in Table 1

Table 1. Compositional requirements/limits of instant tea

S.N	Parameter	Hot water soluble instant tea	cold water soluble black instant tea	Green instant tea	Test method
i	% moisture content m/m dry weight basis (max)	6.0	6.0	6.0	KS ISO 7513
ii	%caffeine m/m dry matter (max)	8.0	8.0	7.5	KS ISO 10727
iii	% ash m/m dry matter (max)	20	40	15	KS ISO 7514, 1575
iv	pH (0.3% w/v solution in distilled water.	3.5-5.5	4.5 – 8.5	5.0 – 6.0	KS ISO
v	% polyphenols m/m (min)	20	5.0	30	ISO 14502 – 1:2005

4.2.2 Caffeine, if present in decaffeinated instant tea shall not exceed 0.4% m/m dry matter

5 Permissible Additives

- 5.1 Food additives when used, shall not exceed permitted levels in accordance with KS 660.
- 5.2 Dimethyl bicarbonate shall not exceed 250 mg/kg

6 Hygiene

- 6.1 Instant tea shall be processed good manufacturing practice in accordance with KS EAS 39, the Public Health Act, Cap. 242 and the Food, Drugs and Chemical Substances Act, Cap. 254 of the Laws of Kenya
- 6.2 Instant tea shall comply with the microbiological limits as stipulated in Table 3.

Table 3 — Microbiological limits for instant tea.

S. No.	Micro-organism	Limit	Test Method
i	Total Viable Count (Aerobic colony count), cfu per g, max.	Less than 10^4	KS ISO 4833
ii	Yeasts, & moulds cfu per g, max.	Less than 10^3	KS ISO 21527-2
iii	Coliform cfu per g, max.	10^2	KS ISO 4832
iv	E. coli cfu, per g, max.	Absent	KS ISO 7251
v	Salmonella spp, cfu per 25g (max)	Absent	KS ISO 6579
vi	Pathogenic S. aureus cfu, per g, max.	Absent	KS ISO 6888-3

7 Environment

Instant tea shall be produced, processed and handled under conditions complying with the stipulations of the Environmental Management and Co-ordination Act (EMCA), No.8 of 1999 of the Laws of Kenya, on disposal of waste.

8 Packaging

- 8.1 Instant tea shall be packaged in food grade material that ensures product safety and integrity, and complying with KS 1927.
- 8.2 The fill of the package shall comply with the Weights and Measures Act, Cap. 513 of the Laws of Kenya.
- 8.3 The disposal of used package and condemned instant tea shall be carried out in compliance with the Environmental Management and Coordination Act (EMCA), Waste Regulations, 2006 of the Laws of Kenya on disposal of solid and liquid wastes.

9 Labelling/Marking

- 9.1 In addition to the requirements in EAS 38, and KS 1927, each package shall be legibly and indelibly marked with the following:
- product name as “Instant Tea”; (cold water soluble, hot water soluble, green or decaffeinated tea)
 - name, address and physical location of the manufacturer/ packer/ importer/ exporter;
 - declaration of additives used;
 - date of manufacture;

- v) expiry date,;
- vi) the declaration “Food for Human Consumption”;
- vii) storage instruction as “Store in a Cool Dry Place, Away from Contaminants”;
- viii) lot/batch/code number;
- ix) net weight in metric units;
- x) instructions on disposal of used package
- xi) declaration if decaffeinated
- xii) country of origin

9.2 A declaration of any inaccurate information in marking/labelling is prohibited and shall be punishable by law under the Standards Act, Cap. 496, of the Laws of Kenya.

10 Sampling

Sampling of instant tea for analysis shall be carried out in compliance with ISO1839.