

ICS 67.140.20

# **EAST AFRICAN STANDARD**

Instant coffee — Specification

© EAC 2025 Fourth Edition 2025

## Copyright notice

This EAC document is copyright-protected by EAC. While the reproduction of this document by participants in the EAC standards development process is permitted without prior permission from EAC, neither this document nor any extract from it may be reproduced, stored or transmitted in any form for any other purpose without prior written permission from EAC.

Requests for permission to reproduce this document for the purpose of selling it should be addressed as shown below or to EAC's member body in the country of the requester:

© East African Community 2020 — All rights reserved East African Community P.O. Box 1096, Arusha Tanzania Tel: + 255 27 2162100

Fax: + 255 27 2162190 E-mail: eac@eachq.org Web: www.eac-quality.net

Reproduction for sales purposes may be subject to royalty payments or a licensing agreement. Violators may be prosecuted.

## **Contents**

Page

1 Scope	4
2 Normative references	4
3 Terms and definitions	
4 Requirements	5
4.1 General requirements	5
4.2 Specific requirements	5
5 Hygiene	5
6 Packaging	6
7 Labelling	6
8 Sampling	6
Annex A (normative) Determination of total ash	7
A.1 Procedure	7
A.2 Calculation	7
Annex B (normative) Determination of solubility in water	
B.1 Procedure	
B.1.1 Solubility in hot water	8
B.1.2 Solubility in cold water	

#### **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.

The Community has established an East African Standards Committee (EASC) mandated to develop and issue East African Standards (EAS). The Committee is composed of representatives of the National Standards Bodies in Partner States, together with the representatives from the public and private sector organizations in the community.

East African Standards are developed through Technical Committees that are representative of key stakeholders including government, academia, consumer groups, private sector and other interested parties. 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 Principles and procedures for development of East African Standards.

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.

The committee responsible for this document is Technical Committee EASC/TC 002, Coffee, cocoa, and related products.

Attention is drawn to the possibility that some of the elements of this document may be subject of patent rights. EAC shall not be held responsible for identifying any or all such patent rights.

This fourth edition cancels and replaces the third edition (EAS 975:2020), which has been technically revised.

# Instant coffee — Specification

#### 1 Scope

This Final Draft East African Standard specifies requirements, sampling and test methods for instant coffee.

This standard also applies to decaffeinated instant coffee.

#### 2 Normative references

The following documents are 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.

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

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

FDEAS 105, Roasted coffee beans and roasted ground coffee — Specification

ISO 3509, Coffee and coffee products — Vocabulary

ISO 3726, Instant coffee — Determination of loss in mass at 70 degrees C under reduced pressure

ISO 6670, Instant coffee — Sampling method for bulk units with liners

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

ISO 20481, Coffee and coffee products — Determination of the caffeine content using HPLC — Reference method

ISO 21527-2, Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 2: Colony count technique in products with water activity less than or equal to 0.95

ISO 24114, Instant coffee — Criteria for authenticity

ISO 15141, Cereals and cereal products — Determination of ochratoxin A — High performance liquid chromatographic method with immunoaffinity column clean up and fluorescence detection

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 3509 and the following apply.

3.1

#### instant coffee

dried, water-soluble product, obtained exclusively from roasted coffee by physical methods using water as the only carrying agent that is not derived from coffee

3.2

coffee from which caffeine has been removed by extraction

#### 3.3

#### chicory

plant (Cichorium intybus) whose roots are often roasted, ground, and used as a coffee substitute or additive. It has a slightly bitter, earthy flavour, similar to coffee but without caffeine

## 4 Requirements

#### 4.1 General requirements

Instant coffee shall:

- a) be obtained from coffee complying with EAS 105;
- b) be free flowing;
- c) have the colour and flavour characteristic of instant coffee;
- d) be free from foreign and extraneous matter;
- e) not contain chicory or any other added substances; and
- f) comply with criteria of authenticity prescribed in ISO 24114.

#### 4.2 Specific requirements

Instant coffee shall comply with the specific requirements given in Table 1 when tested in accordance with test methods specified therein.

Table 1 — Specific requirements for instant coffee

S/N	Characteristic	Requirement	Test method	
i.	Moisture, % m/m, max.	4 <sup>a</sup>	ISO 3726	
ii.	Total ash (on dry basis), % m/m, max.	15.	Annex A	
iii.	Caffeine content (on dry basis), % m/m, min.	2.5 b	ISO 20481	
iv.	Solubility in boiling water	Dissolves readily in 30 seconds with moderate stirring	- Annex B	
V.	Solubility in cold water at 16 °C ± 2 °C, minutes.	Soluble with moderate stirring in 3 minutes		

a For granulated coffee, the maximum moisture content shall be 5 % m/m.

#### 5 Hygiene

**5.1** Instant coffee shall be processed, packaged, stored and distributed under hygienic conditions in accordance with EAS 39.

b For decaffeinated instant coffee, the maximum limit shall be 0.3 % m/m.

**5.2** Instant coffee shall not exceed the microbiological limits given in Table 2 when tested in accordance with test methods specified therein.

Table 2 — Microbiological limits for instant coffee

S/N	Microorganism	Limit	Test method
i.	Coliforms cfu/g	<10	ISO 4832
ii.	Yeast and moulds cfu/g, max	10 <sup>2</sup>	ISO 21527-2

## 6 Packaging

Instant coffee shall be packaged in food grade packaging material which will safeguard the hygienic nutritional, technological and organoleptic qualities of the products.

## 7 Labelling

In addition to the labelling requirements given in EAS 38, the package shall be legibly and indelibly marked with the following information:

- a) name of the product as "Instant coffee" or "Decaffeinated instant coffee";
- b) name and physical address of the manufacturer/packer/distributor;
- c) net content;
- d) date of manufacture;
- e) best before;
- f) storage instructions;
- g) instructions for use;
- h) batch/lot number; and
- i) country of origin.

## 8 Sampling

Except where sampling methods have been specified in specific test methods, sampling of instant coffee shall be done in accordance with ISO 6670 for bulk units with liners. CAC/GL 50-2004, shall be used for sampling retail packages.

## Annex A

(normative)

## **Determination of total ash**

#### A.1 Procedure

Weigh accurately 5 g of the material in dry tarred porcelain dish. Heat slowly over a flame until swelling ceases. Ignite in a muffle furnace at  $550 \, ^{\circ}\text{C} \pm 10 \, ^{\circ}\text{C}$  till grey ash results. Cool the dish in a desiccator and weigh. Repeat this process of heating for 30 min cooling and weighing till the difference in weight between two successive weighings is less than one milligram. Note the lowest weight.

#### A.2 Calculation

The total ash (on dry basis), expressed as percent by mass, shall be calculated as follows:

$$\frac{10\ 000\ (W_2-W)}{(W_1-W)\ (100-M)}$$

where

W is the mass, in grams, of the empty dish,

 $W_1$  is the mass, in grams, of the dish with the material taken for the test,

M is the percentage moisture as determined in accordance with ISO 3726, and

 $W_2$  is the mass, in grams, of the dish with the ash.

# Annex B

(normative)

# **Determination of solubility in water**

#### **B.1 Procedure**

## **B.1.1 Solubility in hot water**

Add 150 mL of freshly boiling water to 2.5 g of sample placed in a 500-mL beaker. The coffee powder shall be readily soluble with moderate stirring within 30 seconds, leaving no appreciable sediment.

## **B.1.2 Solubility in cold water**

Place 2.5 g of the sample in a beaker and add 50 mL of water at 16  $^{\circ}$ C ± 2  $^{\circ}$ C. The powder shall be soluble with moderate stirring in 3 minutes, leaving no appreciable sediment.