

**KENYA STANDARD**

**KS 2527:2014**

**Urea phosphate fertilizer —  
Specification**

PUBLIC REVIEW DRAFT

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First Edition

## **TECHNICAL COMMITTEE REPRESENTATION**

The following organizations were represented on the Technical Committee:

Ministry of Agriculture

Government Chemist department

Mea Ltd.

Chemagro Ltd

Kenya Plant Health Inspectorate Service (KEPHIS)

Tea Research Foundation of Kenya

Athi River Mining Ltd-Mavuno fertilizers

Osho chemicals Ltd

Consumer Information Network

Yara East Africa Ltd

Kel Chemicals ltd.

Kenya Tea Development Agency

Horticultural crops Development Authority

Amiran (K) LTD

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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# KENYA STANDARD

## Urea phosphate fertilizer — Specification

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### 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](mailto: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

### FOREWORD



## Urea phosphate Fertilizer — Specification

### 1 Scope

This Kenya Standard specifies the requirements and prescribes the methods of test for Urea phosphate fertilizers.

### 2 Requirements

#### 2.1. Physical

##### 2.1.1 Description

The fertilizer shall be in form of free flowing crystals or granules shall be free from any foreign matter. It shall be fully soluble in water.

#### 2.3 Chemical

The fertilizers shall comply with the compositional limits specified in Table 1.

**Table 1 — Compositional limits**

SL NO	Characteristic	Requirement	Test method
i)	Total nitrogen, % (m/m), min.	18	AOAC
ii)	Water soluble phosphates as P <sub>2</sub> O <sub>5</sub> , % (m/m), min.	44	AOAC
iii)	Moisture, % (m/m), max.	0.5	AOAC
iv)	Ph(10 % solution)	1-2	AOAC

#### 2.4 Heavy metal contaminants

The heavy metal contaminants, if present, shall not exceed the limits stipulated in Table 2.

**Table 2 — Heavy metal contaminants limits**

SL NO	Parameter	Limits in ppm	Test method
i)	Arsenic, As, max.	20.0	AOAC
ii)	Cadmium, Cd, max.	30.0	AOAC
iii)	Mercury, Hg, max.	0.1	AOAC
iv)	Selenium, Se, max.	1.0	AOAC
v)	Lead, Pb, max.	30.0	AOAC
vi)	Chromium, Cr. Max.	500.0	AOAC

### 3 Packaging and labelling

#### 3.1 Packaging

3.1.1 The fertilizer shall be packaged in materials that ensure the product integrity and quality and protect it against physical damage, chemical and moisture contamination.

3.1.2. The fill of the package shall comply with the weight and measures act CAP 513 of the laws of Kenya

3.1.3 The disposal of used package and condemned fertilizer shall comply with EMCA 1999 no.8 of the disposal of solids and liquid wastes

#### 3.2 Marking/Labelling

Marking/labelling of fertilizer package shall include the following information:

- a) name and physical address of manufacturer/packer/importer;
- b) name of the fertilizer, namely Urea phosphate fertilizer;
- c) guaranteed percentages of nutrient element nitrogen and available phosphates
- d) date of manufacture
- e) expiry date;
- f) the net weight of the fertilizer in the package;
- g) lot number or batch number;;
- h) handling instructions;
- i) Country of origin.

### 4 Certificate of analysis

A certificate of analysis shall accompany each consignment.

### 5 Sampling

This shall be carried out as outlined in the ISO standards listed below  
 ISO 8633-Solid fertilizers -- Simple sampling method for small lots  
 ISO 8634- Solid fertilizers -- Sampling plan for the evaluation of a large delivery