



RF Global Holdings LLC

Monoammonium phosphate (MAP) and diammonium phosphate (DAP) fertilizers — Specification [Kenya Standard KS 157:2010]

1 Scope

This Kenya Standard specifies the requirements and prescribes the methods of test for Monoammonium phosphate (MAP) and diammonium phosphate (DAP) fertilizers.

2 Requirements

2.1 Description

The fertilizer shall be free flowing, granular and free from any foreign matter.

2.2 Physical

Particle size: Not less than 90% of the material shall pass through 4 mm IS sieve and be retained on 1 mm IS sieve. Not more than 5% shall be below 1 mm size

2.3 Chemical

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

| SL NO | Characteristics | Requirement/limits | | Test Method |
|-------|---|--------------------|-----|-------------|
| | | MAP | DAP | |
| i) | Total nitrogen, % (m/m), min. | 11 | 18 | ISO 5315 |
| ii) | Water soluble phosphates as P ₂ O ₅ , % (m/m), min. | 44 | 41 | ISO 5316 |
| iii) | Available phosphates, as P ₂ O ₅ , % (m/m), min. | 50 | 46 | ISO 6598 |
| iv) | Moisture, % (m/m), max. | 1.5 | 1.5 | ISO8189 |

2.4 Heavy metal contaminants

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

| SL NO | Parameter | Limits in ppm | Test method |
|-------|--------------------|---------------|--------------|
| i) | Arsenic, As, max. | 20.0 | AOAC(986-15) |
| ii) | Cadmium, Cd, max. | 30.0 | AOAC(986-15) |
| iii) | Mercury, Hg, max. | 0.1 | AOAC(986-15) |
| iv) | Selenium, Se, max. | 1.0 | AOAC(986-15) |
| v) | Lead, Pb, max. | 30.0 | AOAC(986-15) |
| vi) | Chromium, Cr. Max. | 500.0 | AOAC(986-15) |

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3 Packaging and labeling

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/Labeling

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

- a) name and physical address of manufacturer/packer/importer;
- b) name of the fertilizer, namely MAP or DAP fertilizer;
- c) guaranteed percentages of nutrient element nitrogen and available phosphates of $N - P_2O_5 - K_2O$;
- 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

The sampling of the fertilizers shall be carried in accordance with the standard KS 7410- *Fertilizers and soil conditioners-sampling*

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