



## **DRAFT EAST AFRICAN STANDARD**

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### **Chalkboard duster — 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.

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. 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 079, *Scholastic Materials*.

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# Chalkboard Duster — Specification

## 1 Scope

This Draft East African Standard specifies the requirements for materials, design and construction, and performance of chalkboard dusters used for erasing chalk markings from chalkboards or blackboards.

## 2 Normative references

There are no normative references in this document.

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <http://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

### 3.1

#### **felt**

a textile that is produced by matting, condensing, and pressing fibers together. Felt can be made of natural fibers such as wool or animal fur, or from synthetic fibers such as petroleum-based acrylic or acrylonitrile or wood pulp-based rayon

## 4 Materials

### 4.1 Base material

The base of the chalkboard duster shall be made of durable, light weight material such a plastic or wood. It should be resistant to impact and not prone to cracking or breaking under normal use conditions.

### 4.2 Eraser surface

The eraser surface should be made of high-quality felt or similar material that effectively removes chalk from the board without scratching the surface. The felt should be securely attached to the base and should not fray or detach with regular use.

## **5 Design and construction**

### **5.1 Dimensions**

The chalkboard duster shall be ergonomically designed to fit comfortably in the hand. Standard dimensions shall be a length of 125 mm to 180 mm, a width of 50 mm to 70 mm, and a height of 30 mm to 40 mm.

### **5.2 Handle**

The chalk board duster shall have a handle that provides a comfortable grip. For chalkboard dusters with a wooden base, the wood shall be sanded and finished to prevent splinters.

### **5.3 Eraser pad**

The eraser pad shall have multiple layers of felt to ensure longevity. Each layer shall be firmly stitched or glued to prevent detachment. A typical eraser pad shall include 6 to 10 layers of felt.

## **6 Performance requirements**

### **6.1 Eraser effectiveness**

When tested in accordance with Annex A, the chalkboard duster shall be efficient to remove chalk from the board surface in a few swipes, leaving minimal residue.

### **6.2 Durability**

When tested in accordance with Annex B, the chalkboard duster shall withstand at least 100,000 cycles of use without significant wear and tear and the duster does not crack or break on dropping.

### **6.3 Maintenance**

The chalkboard duster shall be easy to clean. Users should be able to shake off the chalk dust or wipe the felt surface with a damp cloth to restore its erasing efficiency.

## **7 Packaging and marking**

### **7.1 Packaging**

**7.1.1** The packaging shall include clear instructions for using the chalkboard duster, cleaning procedures, and any warnings to avoid misuse (e.g., not suitable for wet chalkboards).

**7.1.2 Chalkboard** dusters shall be individually packed in a protective material that prevents damage during transportation and storage. Packaging should be eco-friendly and recyclable

**7.1.3** If packaged in bulk, each box shall contain an appropriate quantity, ensuring dusters are securely held in place to prevent movement and damage

### **7.2 Marking**

**7.2.1** Chalkboard dusters packed individually shall be clearly, legibly, and indelibly labelled in English, Kiswahili or French with the following:

- a) product name; and

b) brand name.

**7.2.2** If chalkboard dusters are packaged in bulk, each box shall be clearly, legibly and indelibly labelled in English, Kiswahili or French with the following:

a) manufacturer's name/trade mark;

b) product name;

c) batch number;

d) date of manufacture; and

e) country of origin.



## **Annex A**

(normative)

### **Eraser effectiveness test**

Mark a standard chalkboard with chalk lines in a defined grid pattern. Erase the grid with the chalkboard duster, recording the number of swipes required to remove the chalk. A performance pass is recorded if the chalk is removed in 5 or fewer swipes.

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## **Annex B**

(normative)

### **Durability test**

B.1 Subject the chalkboard duster to a machine that simulates the erasing action for 100,000 cycles. Inspect the chalkboard duster for wear and tear, ensuring the felt remains attached, and the base shows no signs of cracking.

B.2 Drop the chalkboard duster from a height of 2 m

## **Annex C** (normative)

### **Material inspection**

Visually inspect the materials for defects, such as splinters on wooden bases or frayed felt edges.

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## Bibliography

- [1] <https://supply.unicef.org/s4416506.html>

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