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ICS 85.080.01

## **DRAFT EAST AFRICAN STANDARD**

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**Newsprint — Specification**

**EAST AFRICAN COMMUNITY**

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Public Review Draft Standard

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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.

The committee responsible for this document is Technical Committee EASC/TC 065, Paper and Paper 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.

## Newsprint — Specification

### 1 Scope

This Draft East African Standard specifies requirements, sampling and test methods for newsprint

### 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.

ISO 187, Paper, board and pulps — Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples

ISO 287, Paper and board — Determination of moisture content of a lot — Oven-drying method

ISO 536, Paper and board — Determination of grammage

ISO 1762, Paper, board, pulps and cellulose nanomaterials — Determination of residue (ash content) on ignition at 525 °C

ISO 1924-2, Paper and board — Determination of tensile properties — Part 2: Constant rate of elongation method (20 mm/min)

ISO 2470-1, Paper, board and pulps — Measurement of diffuse blue reflectance factor — Part 1: Indoor daylight conditions (ISO brightness)

ISO 2471, Paper and Board — Determination of opacity (Paper Backing) — Diffuse Reflectance Method

ISO 4046 (all parts), Paper, board, pulps and related terms — Vocabulary

ISO 8791-2, Paper and board — Determination of roughness/smoothness (air leak methods) — Part 2: Bendtsen method

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4046 (all parts) apply

### 4 Requirements

#### 4.1 General requirements

**4.1.1** The paper shall be free from defects, which may adversely affect its serviceability. It shall be free from wrinkles, folds, paper dust, tears which have not been glued, stains, prominent marks, slime holes and foreign matters.

4.1.2 Each reel shall contain not more than two parts, glued together well to prevent web-break at the joint.

4.1.3 The core shall be rigid and smooth, made of paper, and cardboard.

4.1.4 The core shall not be divided longitudinally.

4.1.5 The length of the core shall approximately be equal to the width of the paper.

4.1.6 The inside diameter of the core shall be made of wood, plastic or other suitable material.

4.1.7 The plug shall be designed for easy removal.

## 4.2 Specific requirements

4.2.1 The number of sheets in a ream shall be 500 subject to a tolerance of  $\pm 1\%$

4.2.2 When tested in accordance with the methods specified in Table 1, the paper shall comply with the requirements specified therein.

**Table 1 — Specific requirements of newsprint**

SL No.	Characteristic	Requirement	Test method	
i)	<sup>a</sup> Grammage, g/m <sup>2</sup> Min.	Recycled fibres	42.5	ISO 536
		Virgin fibres	45	
ii)	Moisture content, %, range	4 — 8	ISO 287	
iii)	Breaking length, mm, Min.	2 300	ISO 1924-2	
iv)	Tear factor, mN, Min.	50	ISO 1924-2	
v)	Ash content, %, mass Max.	5	ISO 1762	
vi)	Bendtsen roughness average of two sides mL/min., Max.	1 200	ISO 8791-2	
vii)	Porosity mL/min (Bendtsen)	400 $\pm$ 100	ISO 8791-2	
viii)	Opacity, %, Min.	70	ISO 2471	
ix)	Brightness, %, Min.	60	ISO 2470-1	
x)	Permissible size tolerance on width, %	$\pm 0.5$	Annex A	
<sup>a</sup> Tolerance of $\pm 5\%$ on the declared grammage above the minimum				

## 5 Labelling

Each reel shall be legibly and indelibly marked either in English, Kiswahili or French or combination with the following particulars

- manufacturer's name, address and/or trademark;
- grammage;
- total mass of the reel in kilograms;
- word "Newsprint";
- width of the paper;
- an arrow indicating the direction of reeling;

- g) date of manufacture (month and year);
- h) number of sheets per ream; and
- i) country of origin

## **6 Packaging**

**6.1** The paper shall be packaged in reel or sheet form.

**6.2** Reels shall be packaged in packages that prevent them from being damaged during transportation, handling and storage.

## **7 Sampling**

Sampling shall be done in accordance with ISO 186



## **Annex A** (normative)

### **Test for permissible size tolerance on width**

#### **A.1 Apparatus**

##### **A.1.1 Graduated metre rule**

#### **A.2 Procedure**

**A.2.1** Condition the test pieces before testing as described in ISO 187 but measure content and dimensions without pre-conditioning.

**A.2.2** Use a graduated rule permitting measurement to an accuracy of 0.5 mm. Measure the width at five places; the average of these five measurements is the width of the paper.

#### **A.3 Report**

Report the average of these five measurements to be the width of the paper.

## Bibliography

KS 431:2018, *Newsprint — Specification*

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