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ICS 85.080.01

## **DRAFT EAST AFRICAN STANDARD**

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### **Paper and board — Cut-size paper — 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.

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.

This second edition cancels and replaces the first edition (EAS 863:2017), which has been technically revised



# Paper and board — Cut-size paper — Specification

## 1 Scope

This Draft East African Standard specifies the requirements, sampling and test methods for cut-size paper.

This standard does not apply to newsprint paper, manilla paper and photocopying paper.

## 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 186, *Paper and board — Sampling to determine average quality*

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

ISO 216, *Writing paper and certain classes of printed matter — Trimmed sizes — A and B series, and indication of machine direction*

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

ISO 535, *Paper and board — Determination of water absorptiveness — Cobb method*

ISO 536, *Paper and board — Determination of grammage*

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

ISO 1974, *Paper — Determination of tearing resistance — Elmendorf method*

ISO 2470, *Paper, board and pulps — Measurement of diffuse reflectance factor — Part 2: Outdoor daylight conditions (D65 brightness)*

ISO 2471, *Paper and board — Determination of opacity (paper backing) — Diffuse reflectance method*

ISO 21067, *Packaging — Vocabulary*

## 3 Terms and definitions

For the purpose of this standard, the terms and definitions given in ISO 21067 shall 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>

**cut-size paper**

paper in the range 50 g/m<sup>2</sup> to 150 g/m<sup>2</sup> which are used for writing and/or in various printing and copying devices

**4 Requirements**

**4.1 General requirements**

**4.1.1** The cut-size paper shall be suitably sized or unsized for satisfactory printing and writing with printing ink and pen ink.

**4.1.2** The cut-size paper shall be uniform in texture, finish and calliper, free of lint, dust, dirt, slime spot, wrinkles, folds, scuff marks, and shall lie flat. The cut-size paper shall be cut squarely on all sides, and be free of knife marking, ragged and torn edges

**4.2 Specific requirements**

**4.2.1** The cut-size paper shall comply with the requirements given in Table 1 when tested in accordance with the methods specified therein.

**Table 1 — Requirements for cut-size paper**

S/No	Characteristic	Requirement		Test method <sup>b</sup>
		Bond paper	Duplicating paper	
i	Grammage <sup>c</sup> , g/m <sup>2</sup> , min.	50	65	ISO 536
ii	Moisture content, %	4 - 7	4 - 7	ISO 287
iii	Opacity <sup>a</sup> , % min.	78	80	ISO 2471
iv	Brightness <sup>a</sup> , %, min.	70	70	ISO 2470
v	Tear index, mN.m <sup>2</sup> /g, min.	53	55	ISO 1974
vi	Breaking length, mm, min.	2 700	2 300	ISO 1924-2
vii	Water absorptiveness, g/m <sup>2</sup> , max.	20	20	ISO 535
viii	pH	[4.5 – 9.5]	[4.5 – 9.5]	[ISO 6588-1]
<sup>a</sup> Applicable to white papers only. <sup>b</sup> Conditioning shall be done in accordance with ISO 187. <sup>c</sup> For grammages above the minimum, the product shall comply with the declared grammage on the label, subject to a tolerance of ± 5%				

**4.2.2** When tested in accordance with ISO 216 the paper shall be within ‘A’ and ‘B’ series of sizes.

## **5 Packaging and labelling**

### **5.1 Packaging**

**5.1.1** Sheets of cut-size paper shall be packaged in suitable material that protects them from dust, moisture and dirt during transportation, storage and normal use.

**5.1.2** The sheets of cut-size paper shall not adhere to one another. The package shall contain sheets of cut-size paper that are of the same size, grammage and colour.

**5.1.3** The number of sheets of cut-size paper in a ream shall be 500 with a tolerance of  $\pm 2$  sheets.

### **5.2 Labelling**

**5.2.1** Each ream shall be legibly and indelibly labelled either in English, Kiswahili or French or a combination, with the following information:

- a) name and physical address of the manufacturer
- b) name of the product;
- c) size designation of the paper;
- d) number of sheets;
- e) grammage of the paper;
- f) colour of the paper, if other than white; and
- g) country of origin/manufacture.
- h) batch/code number

**5.2.2** Each bulk package shall be legibly and indelibly labelled either in English, Kiswahili or French or a combination, with the following information:

- a) name and physical address of the manufacturer
- b) name of the product;
- i) size designation of the paper;
- j) number of reams;
- k) grammage of the paper;
- l) colour of the paper, if other than white;
- m) country of origin/manufacture. and
- n) batch/code number

## **6 Sampling**

Sampling should be done in accordance with ISO 186



## Bibliography

- [1] KS 802-1:1989, Specification for cut-size office papers - Part 1: General purpose paper (Second Edition)
- [2] EAS 863:2017, Paper and board — Cut-size for general purposes — Specification

