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DRAFT EAST AFRICAN STANDARD

Photocopy 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 864:2017), which has been technically revised

Photocopy paper — Specification

1 Scope

This Draft East African Standard specifies requirements, sampling and test methods for photocopy 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 534, *Paper and board — Determination of thickness, density and specific volume*

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

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

ISO 2470-2, *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 6588-1, *Paper, board and pulps — Determination of pH of aqueous extracts — Part 1: Cold extraction*

ISO 8791-1, *Paper and board — Determination of roughness/smoothness (air leak methods) — Part 1: general method*

ISO 14968, *Paper and board — Cut-size office paper — Measurement of curl in a pack of sheets*

ISO 21067, *Packaging — Vocabulary*

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in ISO 21067 and the following 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>

- 3.1**
cross direction (CD)
direction in the paper that is at right angles to the machine direction
- 3.2**
defective
set of test pieces that fails in one or more respects to comply with the relevant requirements of the standard
- 3.3**
feathering and spread
appearance of fine lines of ink at an angle to a line of ink drawn with a pen. Spread is the general excessive widening of a line of ink.
- 3.4**
grammage
mass per unit area of sheet material, in grammes per square metre
- 3.5**
grammage, actual
average grammage obtained on a sample of paper under specified test conditions and that shall normally be within 5 % of the nominal grammage
- 3.6**
grammage, nominal
designated grammage of paper that is used for reference purposes
- 3.7**
long grain
orientation when the machine direction of the paper is in the long direction of the sheet
- 3.8**
lot
one or more nominally identical package of paper, the paper having been made on the same equipment under essentially the same conditions, from one manufacturer, and submitted at any one time for inspection and testing
- 3.9**
surface resistivity
electrical resistance between two straight edged electrodes of the same length positioned to form the opposite edges of a rectangle in contact with the surface on one side of a sheet of paper, multiplied by the electrode length and divided by the distance between them

4 Requirements

4.1 General requirements

- 4.1.1** The photocopy paper shall be free from loose fibres, bits of loose paper, dust, wood splinters, dirt, creases and any other defects that shall impair its serviceability.
- 4.1.2** The edges of the photocopy paper shall be clearly cut and straight.
- 4.1.3** Each side of the photocopy paper shall accept all common writing media without undue signs of feathering or spread.
- 4.1.4** The photocopy paper shall be white or coloured and the machine direction of the photocopy paper shall be in the longer direction of the sheet, that is, the long grain.

4.2 Specific requirements

Photocopy paper shall comply with the requirements given in Table 1 when tested in accordance with the methods specified therein.

Table 1 — Specific requirements photocopy paper

S/No.	Property		Requirement	Test method ^b
i.	Grammage, $\pm 5\%$, g/m ²		80	ISO 536
ii.	Moisture content, %, m/m		4 - 7	ISO 287
iii.	Opacity ^a , %, min.		85	ISO 2471
iv.	Brightness ^a , %, min.		75	ISO 2470-2
v.	pH of aqueous extract		4.5 - 9.5	ISO 6588-1
vi.	Thickness, mm		0.08 - 0.10	ISO 534
vii.	Roughness, mL/min, max.		300	ISO 8791-1
viii.	Water absorptiveness, g/m ²		18 - 24	ISO 535
ix.	Infra-red curl deflection, mm	Top side:		ISO 14968
		• Positive, max.	15	
• Negative, max.	3			
Bottom side:				
• Negative, min.	0			
• Negative, max.	15			
^a Applicable to white paper only. ^b Conditioning shall be done in accordance with ISO 187.				

5 Dimensions

When tested in accordance with ISO 216 the size of the photocopy paper shall be A3 or A4 series.

6 Packaging and labelling

6.1 Packaging

6.1.1 Photocopy paper shall be packaged in suitable material that protects it from dust, moisture and dirt during transportation, storage and normal use.

6.1.2 The sheets of photocopy paper shall not adhere to one another. The package shall contain sheets of the same size and grammage.

6.1.3 The number of sheets of photocopy paper in a ream shall be 500 with a tolerance of ± 2 sheets.

6.2 Labelling

6.2.1 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 as "Photocopy paper";
- c) size designation of the photocopy paper;
- d) number of sheets;
- e) grammage in grams per square metre of the paper;
- f) colour(s) of the paper, if other than white;
- g) batch/code number; and
- h) country of origin/manufacture.

6.2.2 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;
- c) size designation of the paper;
- d) number of reams;
- e) grammage of the paper;
- f) colour(s) of the paper;
- g) country of origin/manufacture. and
- h) batch/code number

7 Sampling

Sampling should be done in accordance with ISO 186.

Bibliography

- [1] KS 802-2:2001, Specification for cut-size office papers - Part 2: Photocopy paper (Second Edition).
- [2] EAS 863:2017, Paper and board — Cut-size for general purposes — Specification

