DRAFT UGANDA STANDARD

First Edition 2020-mm-dd

Envelope — Specification



Reference number DUS 2242: 2020

DUS 2242: 2020

Compliance with this standard does not, of itself confer immunity from legal obligations

A Uganda Standard does not purport to include all necessary provisions of a contract. Users are responsible for its correct application

© UNBS 2020

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilised in any form or by any means, electronic or mechanical, including photocopying and microfilm, without prior written permission from UNBS.

Requests for permission to reproduce this document should be addressed to

The Executive Director
Uganda National Bureau of Standards
P.O. Box 6329
Kampala
Uganda

Tel: +256 414 333 250/1/2/3 Fax: +256 414 286 123 E-mail: info@unbs.go.ug Web: www.unbs.go.ug

Contents

Page

Forewo	ord	٠i،
1	Scope	
2	Normative references	′
3	Terms and definitions	1
4.1	Requirements	1
4.2 4.2.1	Construction Open End envelopes	
4.2.2	Open Side envelopes	
4.3 4.4	DesignationSize	2
4.4.1	Dimensions of Envelopes	
4.4.2	Dimensions of Windows	
4.4.3	Tolerances	
4.5 4.6	Printing Materials	
4.6.1	Paper	
4.6.2	Window Material	5
4.6.3	Joints (seams)	
4.6.4	Flaps	
5 5.1	Packaging and LabellingPackaging	
5.2	Labelling	
6 6.1 6.2 6.3	Sampling and criteria for conformity	
	Lot General Requirements for Sampling	
	Criteria for Conformity	
Annex	A (informative) Envelope Construction Designs	8
	;raphy	
~⊍9). ~ b 1	

Foreword

Uganda National Bureau of Standards (UNBS) is a parastatal under the Ministry of Trade, Industry and Cooperatives established under Cap 327, of the Laws of Uganda, as amended. UNBS is mandated to coordinate the elaboration of standards and is

- (a) a member of International Organisation for Standardisation (ISO) and
- (b) a contact point for the WHO/FAO Codex Alimentarius Commission on Food Standards, and
- (c) the National Enquiry Point on TBT Agreement of the World Trade Organisation (WTO).

The work of preparing Uganda Standards is carried out through Technical Committees. A Technical Committee is established to deliberate on standards in a given field or area and consists of key stakeholders including government, academia, consumer groups, private sector and other interested parties.

Draft Uganda Standards adopted by the Technical Committee are widely circulated to stakeholders and the general public for comments. The committee reviews the comments before recommending the draft standards for approval and declaration as Uganda Standards by the National Standards Council.

The committee responsible for this document is Technical Committee UNBS/TC 7/ SC 3, Paper and paper products

Envelope — Specification

1 Scope

This Draft Uganda standard specifies the designations, requirements, test methods and sampling of envelopes made of paper.

It does not contain any specification as to the ways of closing them.

2 Normative references

The following referenced 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 2758, Paper — Determination of bursting strength.

US ISO 536, Paper and board — Determination of grammage

US ISO 1923, Cellular plastics and rubbers — Determination of linear dimensions

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

3 Terms and definitions

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

3.1

flap

fold-in of an envelope so as to close it

3.2

seam

central point running parallel to the height of the open end envelope. It may be in the centre or the side.

3.3

window

opening in the envelope with or without a translucent patch designed to allow the contents inside the envelope to show through

4 Requirements

4.1 General

4.1.1 The envelope shall be a flat case, generally rectangular, except square envelopes, and made from one sheet of paper.

- **4.1.2** The paper shall be so folded as to provide a plain front and back consisting of four overlapping flaps. Three flaps shall be stuck together and completely sealed while the fourth, which may or may not be gummed, serves as a closure (or sealing flap). The left and right side flaps shall be sealed under the bottom flap.
- **4.1.3** In case the fourth flap is gummed, the adhesive used for this purpose shall be re-moistenable, nonhygroscopic, non-toxic and of vegetable or synthetic type. Animal glue shall not be used for this purpose.
- **4.1.4** The front or working side may have a window fitted with transparent material
- **4.1.5** The overlay between envelope and envelope window shall be glued carefully and completely to the inner side of the envelope and shall be located outside the reserved area for bar coding.
- **4.1.6** The lowest part of the address side of the envelope, 20 mm wide, covering the whole length of the envelope shall be reserved for bar coding.
- **4.1.7** The inner portion of the envelope may be tinted, if desired by the purchaser; design and shade of tint shall be as agreed to between the purchaser and the supplier.

4.2 Construction

Envelopes shall be manufactured from either open side or open end construction designs. Both these designs may be with or without windows

NOTE — Envelopes can be manufactured in an almost endless number of sizes and shapes. Dozens of different designs can be developed from these two basic styles to meet the customer's particular requirements.

4.2.1 Open End envelopes

Open End envelopes have their opening and the seal flap located on the short dimension. They are well suited to hand insertion applications. Open End envelopes are also known as "Pocket envelopes" and larger Open End envelopes are also called "Catalogs". (See Annex A)

4.2.2 Open Side envelopes

Open Side envelopes are ideal for automatic insertion applications and are suited for hand insertion applications as well. Open Side envelopes are also known as "Banker envelopes" and larger Open Side envelopes are also called "Booklets". (See Annex A)

4.3 Designation

Envelopes shall be designated by a reference to the construction design followed by an indication of size. The size shall be expressed by its two dimensions in millimetres, the smaller dimension being given first:

EXAMPLE Open End envelope, 229 x 324

4.4 Size

4.4.1 Dimensions of Envelopes

The nominal dimensions of envelopes, as measured in accordance with US ISO 1923, shall be as given in Table 1.The size of the envelopes shall be expressed by its two dimensions in millimetres, the smaller dimension being given first.

4.4.2 Dimensions of Windows

For an envelope with a window, the nominal dimensions of the window shall be $39 \text{ mm} \times 93 \text{ mm}$, the distance of the left edge of the window from the left edge of envelope shall be 20 mm and the distance of the lower edge of the window from the bottom of the envelope shall be 20 mm.

4.4.3 Tolerances

The tolerance on all nominal dimensions given in Table 1 shall be ± 5 mm.



Table 1 — Envelope dimensions

Envelope Style	Size										
						(mm)			Λ		
Commercial	89 × 152	92 × 165	92 × 219	95 × 171	98 × 190	98 × 225	105 × 241	110 × 220	110 × 230	114 × 241	176 × 254
	178 × 254	229 × 324	254 × 381	305 × 405							
Baronial	92 × 130	111 × 146	133 × 184	212 × 165							
A style	98 × 225	111 × 146	121 × 165	133 × 184	152 × 241	206 × 410					
Square	127 × 127	140 × 140	152 × 152	165 × 165	178 × 178	190 × 190	203 × 203	216 × 216	229 × 229	214 × 241	343 × 343
Booklet	121 × 165	140 × 191	140 × 206	146 × 225	152 × 229	152 × 241	165 × 241	178 × 254	191 × 267	222 × 292	229 × 305
Catalog	98 × 191	102 × 162	117 × 171	127 x 191	140 × 191	140 × 210	105 × 241	114 × 264	121 × 279	127 × 292	152 × 229
	165 × 241	178 × 254	191 × 267	210 × 286	216 × 267	222 × 286	229 × 305	241 × 318	254 × 305	254 × 330	292 × 368
Wallet Flap	105 × 241	114 × 264	121 × 279	127 × 292	152 × 305						
Mail	105 × 241	229 × 305	241 ×318	254 × 330							

4.5 Printing

The envelopes, if required, may be suitably and distinctly printed as agreed upon between the purchaser and the supplier. This printing shall be on the smooth surface of the paper and at least 2.0 cm away from any of the edges.

4.6 Materials

4.6.1 Paper

- **4.6.1.1** The grammage of the paper used shall be dependent on the area of the envelope and it shall be as per Table 1 when tested in accordance with US ISO 536. A tolerance of \pm 5 percent shall be permitted on the nominal grammage for individual test results and the mean of 10 test results shall not vary from nominal grammage by more than \pm 2.5 percent.
- **4.6.1.2** The surface of the paper shall be of uniform structure, free from dust/ dirt, blemishes, creases, specks and holes. Mineral filling shall not cause corrosive or abrasive damage to transport means.
- **4.6.1.3** The paper shall be dimensionally stable and flat when kept in ambient conditions of 20-80 percent relative humidity and 15 to 35°C temperature.
- **4.6.1.4** The paper shall also comply with the requirements given in Table 1.

4.6.2 Window Material

- **4.6.2.1** At a minimum, windows shall be placed 12.7 mm from the side and the bottom of the face of the envelope to ensure adequate room for patch adhesive.
- **4.6.2.2** Transparency shall be adequate to ensure proper legibility to text under the window with normal sight.
- **4.6.2.3** Glassine paper with a minimum grammage of 35 g/m², cellophane paper of minimum grammage 40 g/m² or PVC/BOPP of a minimum thickness of 15 microns shall be used as window material. The material shall stick firmly without any wrinkles to the inner side of plain front of the envelope.

Parameter Area of envelope Requirement **Test Method** $(\times 10^3 \text{ mm}^2)$ 70 Up to 30 Grammage 31 to 80 90 **US ISO 536** (g/m²), Nominal 81 to 120 120 121 and above 140 Burst Index, Nm²/g (min) ISO 2758 20 Tear index (Machine 12.0 **US ISO 1974** Direction) mNm²g, min.

Table 2 — Requirements of Paper for making envelopes

4.6.3 Joints (seams)

- **4.6.3.1** The pasting of the joints, wherever required, shall be even and continuous without leaving any gap or opening.
- **4.6.3.2** The gum applied on the sealing flap, seam and bottom flap shall not extend beyond the overlapping portion. The left and right side flaps shall be sealed under the bottom flap.

4.6.3.3 The width of the bottom flap and the seam shall be between 1.5 cm and 2.5 cm to ensure the strength of the envelope and the safety of its contents.

4.6.4 Flaps

- **4.6.4.1** The flaps for closing the envelopes shall be of suitable shape, as agreed to between the purchaser and the supplier.
- **4.6.4.2** Their width shall be such that it closes the envelope securely and ensures the safety of its content.

NOTE— The adhesive applied on the sealing flap should not go beyond the overlapping area so that it should not stick to the letter in the envelope

5 Packaging and Labelling

5.1 Packaging

Envelopes shall be packaged in suitable packaging materials which shall protect the product from damage during transportation, handling and storage.

5.2 Labelling

Each package shall be labelled with the following information:

- a) name and address of manufacturer;
- b) size and colour of the envelope;
- c) batch/lot number;
- d) number of envelopes in the package;
- e) whether gummed or ungummed; and
- f) country of origin

6 Sampling and criteria for conformity

6.1 Lot

All the packages of envelopes of identical size and belonging to the same batch of manufacture shall be grouped together to constitute a lot. Each lot shall be tested separately for various requirements of this specification.

6.2 General Requirements for Sampling

- **6.2.1** Samples shall be protected from exposure to heat, direct sunlight, liquids, varying humidity conditions as well as any other harmful influences.
- **6.2.2** Samples shall be handled as little as possible and contact with sweated hands shall be strictly avoided.
- **6.2.2** The number of envelopes to be sampled from each lot shall be as given in Table 3.

6.3 Criteria for Conformity

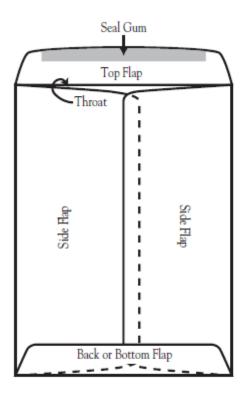
6.3.1 While conducting the tests for paper quality, no failure shall occur for the lot to be accepted as conforming to this specification.

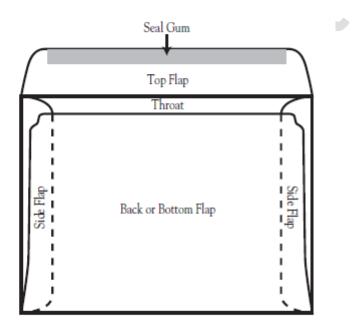
Table 3 — Scale of sampling

Lot size (Number of envelopes)	Sample size
Up to 100	5
101 to 150	8
151 to 300	13
301 to 500	20
501 to 1 000	32
1 001 to 3 000	50
3 001 to 10 000	80
10 001 and above	125

Annex A (informative)

Envelope Construction Designs





Open End (Catalog)

Open Side (Booklet)

Bibliography

- [1] IS 13892 (1999): Correspondence envelopes Specification
- [2] A complete Reference Guide to Envelope Construction, Size and Conversion, [viewed 2020-01-16]. Available at http://cmykprinting.com/resource-center/reference



Certification marking

Products that conform to Uganda standards may be marked with Uganda National Bureau of Standards (UNBS) Certification Mark shown in the figure below.

The use of the UNBS Certification Mark is governed by the Standards Act, and the Regulations made thereunder. This mark can be used only by those licensed under the certification mark scheme operated by the Uganda National Bureau of Standards and in conjunction with the relevant Uganda Standard. The presence of this mark on a product or in relation to a product is an assurance that the goods comply with the requirements of that standard under a system of supervision, control and testing in accordance with the certification mark scheme of the Uganda National Bureau of Standards. UNBS marked products are continually checked by UNBS for conformity to that standard.

Further particulars of the terms and conditions of licensing may be obtained from the Director, Uganda National Bureau of Standards.





ICS 85.080.10

Price based on nn pages