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Handwoven mats — Specification



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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Requirements	2
4.1 General Requirements	2
5 Specific requirements	2
5.1 Materials	2
5.2 Dimensions	2
5.3 Dimensional change	3
5.4 Colour fastness	3
5.5 Restricted colorants	3
6 Packaging	4
7 Labelling	4
7.1 Marking on each mat	4
7.2 Marking on bulk package	4
8 Sampling	5
Annex A (normative) List of dye stuffs prohibited	6
Annex B (informative) List of banned Amines	7
Bibliography	9

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
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- (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 311-Crafts and related products

Handwoven mats — Specification

1 Scope

This draft Uganda Standard specifies requirements, sampling and test methods for handwoven mats. The standard applies to handwoven table mats, floor mats, door mats, wall mats, beach mats and bathroom mats.

2 Normative references

The following referenced documents 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 14389, *Textiles — Determination of the phthalate content — Tetrahydrofuran method*

ISO 16373-2, *Textiles — Dyestuffs — Part 2: General method for the determination of extractable dyestuffs including allergenic and carcinogenic dyestuffs (method using pyridine-water)*

ISO 16373-3, *Textiles — Dyestuffs — Part 3: Method for determination of certain carcinogenic dyestuffs (method using triethylamine/methanol)*

US ISO 105-B02, *Textiles — Colour fastness, Part B02: Determination of colour fastness to artificial light: Xenon arc fading lamp test*

US ISO 105-C10, *Textiles — Tests for colour fastness — Part C10: Colour fastness to washing with soap or soap and soda*

US ISO 105-X12, *Textiles — Tests for colour fastness — Part X12: Colour fastness to rubbing*

US ISO 22198, *Textiles — Fabrics — Determination of width and length*

US ISO 5077, *Textiles — Determination of dimensional change in washing and drying*

US.ISO 11212-1, *Starch and derived products — Heavy metals content — Part 1: Determination of arsenic content by atomic absorption spectrometry*

US.ISO 11212-2, *Starch and derived products — Heavy metals content — Part 2: Determination of mercury content by atomic absorption spectrometry*

US.ISO 11212-3, *Starch and derived products — Heavy metals content — Part 3: Determination of lead content by atomic absorption spectrometry with electro thermal atomization*

US.ISO 11212-4, *Starch and derived products — Heavy metals content — Part 4: Determination of cadmium content by atomic absorption spectrometry with electro thermal atomization*

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>

**3.1
mat**
a handwoven covering made from either natural material or man-made material used for different purposes

**3.2
dye**
natural or synthetic substance soluble in water used to add a colour to or change the colour of fibre

4 Requirements

4.1 General Requirements

4.1.1 Materials used for making handwoven mats, shall not have any adverse effect on human health and the environment.

4.1.2 Fibres used for making handwoven mats shall be clean and dry.

4.1.3 The fibres shall be flexible and tightly woven.

4.1.4 Handwoven mats shall be free from any weaving defects such as holes, tears, floats, crushed selvedge, spots and stains.

4.1.5 The edges shall be secured tightly enough such that the mat cannot be easily undone and have no excessive distortions such as waves.

4.1.6 The handwoven mat shall be tailored to the specifications of the buyer in terms of design, pattern, dimensions/size, colour unless otherwise stated.

4.1.7 Products prone to insect attack should be fumigated or treated in any other means to protect their integrity. The chemicals used for fumigation should be safe to the users and the environment.

5 Specific requirements

5.1 Materials

Mats shall be made from natural or synthetic materials used as one or combined raw materials such as sisal, banana fibres, swamp grasses, sweet grass fibres, bamboo, bamboo leaves, palm leaves, water hyacinth fibres, raffia, plastics, bark cloth, threads, dry banana leaves, cotton waste, recycled materials among others.

5.2 Dimensions

5.2.1 The dimensions of mats shall be as specified in the agreement between the buyer and the seller. Preference would, however, be given to the sizes of mats given below:

Table 1 — Dimensions for handwoven mats

S/N	Types of Mats	Description	Dimensions (cm)
1	Table Mats	Round Mats	26
			28
		Rectangle	45 x 30
			30 x 42
		coaster/ round	10 x 10
		coaster/square	8 x 8
Runner	33 x 200		
2	Floor Mats	Rectangular	231 x 99
3	Door Mats	Small	50 x 75
		Medium	60 x 85
		Large	75 x 100
		Runner	75 x 120
4	Beach Mats	Small	103 x 78
		Medium	152 x 103
		Large	188 x 153

5.3.2 The dimensions shall not be less than that indicated on the identification label when tested in accordance with US ISO 22198. A tolerance of ± 5 percent shall be permitted.

5.3 Dimensional change

The dimensional change of handwoven mats shall not be more than 5 % (for both shrinkage and elongation) when tested in accordance with US ISO 5077

5.4 Colour fastness

Table 2 — Colour fastness requirements for hand woven table mats

SI No	Agency		Numerical rating		Test method
			Colour change	Staining	
i)	Light		4-5	-	US ISO 105 B02
ii)	Washing		3-4	3-4	US ISO 105-C10
iii)	Rubbing (min)	dry	-	4	US ISO 105-X12
		wet	-	3	

5.5 Restricted colorants

5.5.1 Where colorants have been applied on the mat, the dyed mat shall not contain dyestuffs specified in ISO 16373-2 and ISO 16373-3 and phthalates detected and quantified in accordance with ISO 14389 shall not be more than 0.1 % by mass

5.5.2 The aromatic amine and dyes listed in Annex A and B shall not be used.

5.5.3 The limits for heavy metals shall comply with the requirements given in Table 3 when tested in accordance with test methods specified therein

Table 3 — Volume of heavy metal contamination

Heavy metal	Criteria mg/kg	Test Method
Lead	1	ISO 11212-3
Mercury	0.02	ISO 11212-2
Cadmium	0.1	ISO 11212-4
Arsenic	1	ISO 11212-1

6 Packaging

The mats shall be suitably packed individually or in bulk, as agreed to between the buyer and the seller, care being taken to see that the pile of mats is not deformed when packed.

7 Labelling

7.1 Marking on each mat

Each mat shall be legibly and indelibly marked or a label shall be attached with it giving the following particulars or in accordance with the agreement between the buyer and the seller

- a) name of the product such as, “table mats”;
- b) manufacturer’s name, trademark or any other identification mark;
- c) Material used such as “raffia”, “sisal”;
- d) size or dimensions;
- e) care instructions; and
- f) Country of origin.

7.2 Marking on bulk package

The following information shall be marked on each bulk package:

- a) name of the product such as, “table mats”;
- b) manufacturer’s name, trademark or any other identification mark;
- c) number of pieces in the bulk package;
- d) gross mass; and
- e) Country of origin.

8 Sampling

8.1 All the handwoven mats of the same type of raw material or intended combination of raw materials, size, design and from the same manufacturer shall constitute a lot.

8.2 The handwoven mats shall be selected at random from the lot.

8.3 Sample size shall be in accordance with Table 4.

Table 4 — Scale of sampling for conformity for hand woven products

Lot size	Sample size
Up to 10	2
11–20	3
21–30	4
30–40	5
50–Above	6

Annex A
(normative)

List of dye stuffs prohibited

SN	C.I. Generic Name	Structure C.I.No.
1	Acid Orange 45	22195
2	Acid Red 4	14710
3	Acid Red 5	14905
4	Acid Red 24	16140
5	Acid Red 26	16150
6	Acid Red 73	27290
7	Acid Red 85	22245
8	Acid Red 114	23635
9	Acid Red 11	27200
10	Acid Red 116	26660
11	Acid Red 128	24125
12	Acid Red 148	26665
13	Acid Red 150	27190
14	Acid Red 158	20530
15	Acid Red 167	
16	Acid Red 264	18133
17	Acid Red 265	18129
18	Acid Red 420	
19	Acid Violet 12	18075
20	Acid Violet 49	42640
21	Acid Brown 415	
22	Acid Brown 29	
23	Acid Brown 94	30336
24	Acid Brown 131	
25	Acid Brown 132	
26	Acid Brown 209	
27	Azoic Diazo Component 11	37085
28	Azoic Diazo Component 12	37105
29	Azoic Diazo Component 48	37235
30	Azoic Diazo Component 112	37225
31	Azoic Diazo Component 113	37230

Annex B (informative)

List of banned Amines

SN	Aromatic Amine	CAS number (Chemical Abstract Service Number)
1	Biphenyl-4-ylamine 4-aminobiphenyl xenylamine	92-67-1
2	benzidine	92-87-5
3	4-chloro-o-toluidine	95-69-2
4	2-naphthylamine	91-59-8
5	o-aminoazotoluene 4-amino- 2',3dimethylazobenzene 4-o-tolylazo-o-toluidine	97-56-3
6	5-nitro-o-toluidine	99-55-8
7	4-chloroaniline	106-47-8
8	4-methoxy-m-phenylenediamine	615-05-4
9	4,4'-methylenedianiline 4,4'-diaminodiphenylmethane	101-77-9
10	3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4, 4'-ylenediamine	91-94-1
11	3,3'-dimethoxybenzidine odianisidine	119-90-4
12	3,3'-dimethylbenzidine 4,4'-bi-o-toluidine	119-93-7
13	4,4'-methylenedi-o-toluidine	838-88-0
14	6-methoxy-m-toluidine pcesidin	120-71-8
15	4,4'-methylene-bis-(2-chloro-aniline) 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4
16	4,4'-oxydianiline	101-80-4
17	4,4'-thiodianiline	139-65-1
18	o-toluidine 2-aminotoluene	95-53-4
19	4-methyl-m-phenylenediamine	95-80-7
20	2,4,5-trimethylaniline	137-17-7
21	o-anisidine	90-04-0
22	2-methoxyaniline	66-76-3
23	4-aminoazobenzene paminoazobenzene	60-09-3

24	2,4-xylidine	95-68-1
25	2,6-xylidine	87-62-7

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