

CONFIRMED 2015
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# **Woven blankets — Specification**

Part 5:

**Blankets made from acrylic fibres**

**TECHNICAL COMMITTEE REPRESENTATION**

The following organizations were represented on the Technical Committee:

Moi University  
Chalange Industries Ltd.  
Spinners and Spinners Ltd.  
Nakuru Industries Ltd.  
Spin Knit Ltd.  
Moi Teaching and Referral Hospital  
Ministry of public works — Materials Branch  
Lamsons Industries  
Mega Spin Ltd.  
Rupa Mills Ltd.  
Ken Knit (K) Ltd.  
Kenya Textile Training Institute  
Kenya Industrial Research and Development Institute  
Kenya Bureau of Standards — Secretariat

**REVISION OF KENYA STANDARDS**

In order to keep abreast of progress in industry, Kenya standards shall be regularly reviewed. Suggestions for improvements to published standards, addressed to the Managing Director, Kenya Bureau of Standards, are welcome.

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Part 5:

**Blankets made from acrylic fibres**

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## **Foreword**

The Second Edition of KS 117 Part 5 was prepared by the Technical Committee on Blankets, Nonwovens, Threads and Fibres under the guidance of the National Standards Council and it is in accordance with the procedures of the Kenya Bureau of Standards.

The use of acrylic fibres in the manufacture of blankets either as 100 % (acrylic) or as a predominant component of a mixture of fibres is widely practiced in the blanket industry. It is important that these blankets conform to the minimum requirements expected of them. This Kenya standard specifies these minimum requirements.

In this first revision, technological changes in blankets industry have been taken into account for example on marking of blanket pieces.

During the preparation of this first revision of this Kenya standard reference has been made to test results of locally manufactured acrylic blankets.

## Woven Blankets — Specification

### Part 5:

## Blankets made from acrylic fibres

### 1 Scope

This Part 5 of KS 117 specifies the requirements for woven blankets made from acrylic fibres. It applies to woven blankets with fibre composition of not less than 70 % acrylic.

### 2 Normative references

The following referenced documents are indispensable in the application of this standard.

KS 68, *Textile care labelling code*

KS 119, *Method for determination of breaking strength and elongation of woven fabrics*

KS 120, *Method for determination of mass per unit length or area of woven knitted fabrics*

KS 122, *Method for determination of colour fastness of textile materials to dry cleaning*

KS 123, *Method for determination of colour fastness of textile material to washing*

KS 127, *Method for quantitative chemical analysis of binary fibre mixtures*

KS 129, *Method for determination of colour fastness of textile materials to perspiration*

KS 359, *Method for determination of colour fastness of textile materials to artificial light (Xenon Arc)*

KS 363, *Method for determination of dimensional change of woven fabrics on laundering near boiling point*

KS 665, *Specification for textile labels*

KS 834, *Methods for determination of dimensions of woven fabrics*

*Part 1: Measurement of width of pieces*

*Part 2: Measurement of length of pieces*

### 3 Terms and definitions

#### 3.1

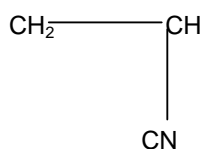
##### acrylic fibre

generic name for fibres made from a synthetic linear polymer that consists of not less than 85 % (by mass) of acrylonitrile units or acrylonitrile copolymer

#### 3.2

##### Polyacrylonitrile fibre

a fibre made from a synthetic linear polymer in which the chief repeating units is :



### 4 Requirements

#### 4.1 Materials

The blanket shall be manufactured from acrylic fibres (see Clause 3). When tested in accordance with KS 127, the fibre composition of the blanket shall be not less than 70 % acrylic.

**4.1.1** The mass per unit area and the tensile strength of the blanket shall be as specified in Table 1.

## KS 117-5:2008

**4.1.2** The maximum dimensional change after five washings shall be  $\pm 5\%$  in lengthwise direction and  $\pm 2\%$  in the widthwise direction. This shall be determined in accordance with KS 363.

**4.1.3** The loss in mass after five washings shall be not more than 2 %. This shall be determined in accordance with KS 363.

### 4.2 Colour fastness

The colour fastness of dyed blankets shall be as specified in Table 2.

### 4.3 Finishing

**4.3.1** The blanket shall be raised on both sides such that the warp yarns (ends) shall not be visible when visually examined.

**4.3.2** The blanket selvages shall be straight and firm, when visually examined and handled.

**4.3.3** The blanket shall be whipped at both ends where there are proper selvages on both sides. Where there are no proper selvages on both sides, e.g. blankets for baby cots, the blanket shall be whipped all round. The number of stitches per 10 cm shall be not less than 24. Both ends of the whipping thread shall be securely finished.

**4.3.4** The dimensions of the finished blanket shall be as declared subject to a tolerance of - 1 % (max.) in either direction. This shall be determined in accordance with KS 834 Parts 1 and 2.

**Table 1 — Physical requirements**

Characteristic		Minimum requirements			Test method
		Light Variety	Medium Variety	Heavy Variety	
Mass in g/m <sup>2</sup>		300	450	550	KS 08-120
Breaking strength in N (strip method)	Lengthwise	320	400	450	KS 08-119
	Widthwise	260	300	360	

**Table 2 — Requirements for colour fastness**

Agency	Minimum numerical rating		Test method
	Colour change	Staining	
Light	6	—	KS 359
Washing	4	4	KS 123 method 3
Dry cleaning	4	4	KS 122
Perspiration (Acid and Alkali)	4	4	KS 129
Peroxide washing	4	4	KS 545

## **5 Marking**

### **5.1 Marking of pieces**

The following information shall appear in legible and indelible marking on a label, securely attached to the corner of each blanket: (see KS 665)

- i) manufacturer's name or registered trade mark;
- ii) the words "Acrylic blanket";
- iii) size (length and width) of the blanket in cm;
- iv) care label instructions in accordance with KS 68:1992;
- v) variety of the blanket in accordance with Table 1;
- vi) country of manufacture or origin.

### **5.2 Marking of bulk containers**

The following information shall appear in legible and indelible marking on the outside of each bulk container:

- i) manufacturer's name or registered trade mark;
- ii) size of the blankets;
- iii) quantity of pieces;
- iv) variety of the blanket in accordance with Table1;
- v) the country of manufacture or origin.

## **6 Packaging**

### **6.1 Pieces**

Each blanket shall be packed or wrapped with transparent polythene wrapper.

### **6.2 Bulk packages**

The blankets shall be securely packed in such a manner as to protect them from contamination with dust, fumes, water or moisture during storage or transportation.