

Cotton Flannel — Specification

DKS 2908: 2020

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The following organizations were represented on the Technical Committee:

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Spinners & Spinners Ltd
Spin Knits Ltd, Nakuru
Ken Knits Ltd, Eldoret
Kenya Association of Manufacturers (KAM)
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DKS 2908: 2020

Foreword

This Kenya Standard has been prepared by the Technical Committee on Knitted Fabrics under the guidance of the Standards Projects Committee, and it is in accordance with the procedures of the Kenya Bureau of Standards.

1 Scope

This Kenya Standard specifies the requirements and test methods for cotton flannel.

2 Normative references

The following referenced documents are indispensable in the application of this document. For dated references, only the edition applies. For undated references, the latest edition of the referenced document including any amendments applies.

KS EAS 257, Methods for estimation of moisture, total size or finish, ash, fatty matter and determination of water soluble matter in textiles

KS 08-665, Specification for textile labels

KS ISO 105-B01, Textiles — Tests for colour fastness — Part B01: Colour fastness to light: Daylight

KS ISO 105-B02 Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test

KS ISO 3758, Textiles — Care labelling code using symbols

KS ISO 3759, Textiles — Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change

KS ISO 6330, Textile — Domestic washing and drying procedures for textile testing

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

KS ISO 13934-1, Textiles — Tensile properties of Fabrics-Strip method

KS ISO 3801, Textiles — Woven fabrics — Determination of mass per unit length and mass per unit area

KS ISO 24153- Random sampling and randomization procedures

KS ISO 3071-Textiles, Determination of pH of aqueous extract

3 Terms and definitions

Flannel -fabric made in plain or twill weave, it is napped, most often on both sides

4.0 General requirements

4.1 The fabric shall be of 100% cotton when tested in accordance with ISO 1833-11

4.2 The cloth shall be woven in plain weave

4.3 The cloth shall be raised on one or both sides

4.4 The cloth shall be free from spinning, weaving and processing defects. it shall be free dressing and filling and substances liable to cause subsequent tendering.

4.5 the length and width of each piece under test shall not vary at any place by more than 1 % below the declared value. This shall be determined in accordance with KS ISO 22198.

5 Specific Requirements

DKS 2908: 2020

5.1 The breaking strength and mass per unit area of cotton shall be as specified in table 1

5.2 The chemical and other requirements of the cotton flannel shall conform to the those given in table

Table 1:Physical Properties of Cotton Flannel

Characteristic		Minimum Requirement	Method of Test
Breaking strength, N	Warp	350	KS ISO 13934-1
	Weft	300	
Mass, g/m ²		165	KS ISO 3801
Tearing strength		25	KS ISO 13937-2
Threads per cm		20	KS ISO 7211-4

Table 2:Chemical Properties and other Requirements of Cotton Flannel

COLOUR FASTNESS TO:		Minimum requirement		METHOD OF TEST
		Colour Change	Staining	
Light		4	-	KS ISO 105-B01 KS ISO 105-B02
Washing		4	4	KS ISO 105-C10:
Hot pressing		4	4	KS ISO 105-X11
Perspiration		4	4	KS ISO 105-E04
Rubbing		4	4	KS ISO 105-X12
Colourfastness to saliva				
Dimensional changes, % max	Warp	3		KS ISO 6330 Procedure 9N KS ISO 3759
	Weft	2		
PH	6-8.5			KS ISO 3071

DKS 2908: 2020

6.0 Marking and packing

6.1 Each fleece jacket shall have a labels complying with KS 08-665 and with the following information:

- i) manufacturer's name or registered trade mark;
- ii) country of manufacture.
- iii) Care instructions in accordance KS ISO 3758
- iv) Length and width

6.2 Each cotton flannel shall be properly packed to keep it free from any soiling or damage.

7.0 Sampling

Sampling shall be done in accordance with ISO 24153.