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SCHOOL CLOTHING – PART. 10 - JERSEYS AND CARDIGANS

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School clothing — Part 10: Jerseys and cardigans



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Foreword

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School clothing — Part 10: Jerseys and cardigans

1 Scope

This part of African standard covers the requirements for the materials, size, and make of school jerseys and cardigans.

2 Normative references

The following referenced documents are indispensable for the application 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.

ARS 1568-1, *School clothing — Part 1: General requirements for school clothing*

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

ASTM D8007, *Standard Test Method for Wale and Course Count of Weft Knitted Fabrics*

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

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

ISO 105-D01, *Textiles — Tests for colour fastness — Part D01: Colour fastness to dry cleaning*

ISO 105-E04, *Textiles — Tests for colour fastness — Part E04: Colour fastness to perspiration*

ISO 137, *Wool — Determination of fibre diameter — Projection microscope method*

ISO 2062, *Textiles — Yarns from packages — Determination of single-end breaking force and elongation at break*

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

ISO 4915, *Textiles — Stitch types — Classification and terminology*

ISO 4916, *Textiles — Seam types — Classification and terminology*

ISO 6330, *Textiles — Domestic washing and drying procedures for textile testing*

ISO/TR 11827, *Textiles — Composition testing — Identification of fibres*

ISO 12945-1, *Textiles — Determination of fabric propensity to surface fuzzing and to pilling — Part 1: Pilling box method*

ISO 13938-1, *Textiles — Bursting properties of fabrics — Part 1: Hydraulic method for determination of bursting strength and bursting distension*

3 Terms and definitions

For the purposes of this standard the definitions given in ARS 1568-1 and the following definitions shall apply:

ARS 1568-10:2017(E)

3.1

cardigan

a knitted garment having long sleeves, and a two-piece front that fastens with buttons or a slide fastener

3.2

jersey

a knitted garment having long sleeves, and a one-piece front

3.3

nominal

subject to the tolerances normal to good manufacturing practice

3.4

size designation

the numerical value of the chest/bust girth, in centimetres, of the intended wearer

3.5

size designation

the numerical value, in centimetres, of the circumference of the neck of the intended wearer

3.6

make

a systematic assembly and attachment of garment component parts

3.7

trims

narrow fabric generally used for the purpose of decorating or adorning furnishing **fabrics** or clothing, but often fulfilling a utilitarian function

3.8

size

a specific set of dimension for a manufactured article especially clothing

4 Materials

4.1 Knitted fabric

The knitted fabric shall consist of acrylic yarns, or of wool yarns, or of a blend, as specified by the purchaser, and shall comply with the requirements of Table 1 or Table 2, as relevant. The cuff and waistband ribbing shall each be of one of the structures given in the appropriate table, as specified (in both cases) by the purchaser.

Table 1 — Knitted fabric requirements: Acrylic garments

1	2	3
Property	Requirement	Test method subsection
Knitted structure		7.2
Body and sleeves	1 × 1 rib	
Neckband	1 × 1 rib	
Strapping	1 × 1 rib	
Cuffs	2 × 1 or 2 × 2 rib	
Waistband	2 × 1 or 2 × 2 rib	
Composition, %		7.3
Acrylic	100	
Wales per 10 cm, min.		7.5
Body and sleeves	48	
Neckband	48	
Strapping, knitted with		
a) one end of yarn	48	
b) two ends of yarn	45	
Cuffs and waistband	54	
Courses per 10 cm, min.		7.5
Body and sleeves	83	
Neckband	92	
Strapping, knitted with		
a) one end of yarn	75	
b) two ends of yarn	60	
Cuffs and waistband	90	
Mass per unit area, g/m², min.	335	7.6
Dimensional changes on washing, %, max.		7.7
Length	4	
Area	6	
Colour fastness to light, rating, min.	5	7.8
Colour fastness to washing, rating, min.		7.9
Change in colour	4	
Staining of transfer cloths	4	
Colour fastness to perspiration, rating, min.		7.10
Change in colour	4	
Staining of transfer cloths	4	
Resistance to pilling, rating, min.	3	7.12
Bursting strength, kPa, min.	600	7.13

Table 2 — Knitted fabric requirements: wool or wool blend garments

1	2	3
Property	Requirement	Test method subsection
Knitted structure		7.2
Body and sleeves	1 × 1 rib	
Neckband	1 × 1 rib	
Strapping	1 × 1 rib	
Cuffs	2 × 1 or 2 × 2 rib	
Waistband	2 × 1 or 2 × 2 rib	
Composition, %		7.3
a) New wool	100	
b) Blended: new wool, min.	60	
other fibres, max.	40	
Mean wool fibre diameter, μm	22,5 to 27,0	7.4
Wales per 10 cm, min.		7.5
Body and sleeves	62	
Neckband	62	
Strapping	62	
Cuffs and waistband	54	
Courses per 10 cm, min.		7.5
Body and sleeves	95	
Neckband	95	
Strapping	95	
Cuffs and waistband	100	
Mass per unit area, g/m^2, min.	440	7.6
Dimensional changes on washing, %, max.		7.7
Length	5	
Area	8	
Colour fastness to light, rating, min.	5	7.8
Colour fastness to washing, rating, min.		7.9
Change in colour	4	
Staining of transfer cloths	4	
Colour fastness to perspiration, rating, min.		7.10
Change in colour	4	
Staining of transfer cloths	4	
Colour fastness to dry cleaning, rating, min.		7.11
Change in colour	4	
Staining of transfer cloths	4	
Resistance to pilling, rating, min.	3	7.12
Bursting strength, kPa, min.	600	7.13

4.2 Supplementary materials and components

4.2.1 General

The supplementary materials and components shall comply with the relevant requirements laid down in subclause 4.2 of ARS 1568-1.

4.2.2 Stay tape

The colour of the stay tape shall be an acceptable match to that of the knitted fabric.

4.2.3 Sewing threads

In addition, the breaking strength, determined in accordance with 8.14, of needle overlocking threads and sewing threads for linking shall be at least 15 N.

4.3 Colours of materials and components

Colour shall be as agreed upon between the purchaser and the supplier.

5 Style, size, and make

5.1 Style

The style shall be that of a cardigan or a jersey, and may have one of the following types of neck as specified (in both cases) by the purchaser:

a) Cardigans

- 1) Crew-neck
- 2) V-neck

b) Jerseys

- 1) Crew-neck
- 2) V-neck
- 3) Turtle-neck
- 4) Polo-neck

5.2 Size designation and garment measurements

The jerseys and cardigans shall be supplied in one (or more) of the size designations given in column 1 of table 3 or table 4 (as relevant), and their measurements shall conform to the appropriate values given in columns 2-6 of the relevant table. Both the size designation(s) and whether the garments are to be for girls or boys shall be as specified by the purchaser.

Table 3 — Size designation and garment measurements for jerseys and cardigans for girls
(see Figure 1)

1	2	3	4	5	6
Size designation	Garment measurements, cm, min.				
	Bust girth	Back length	Sleeve girth	Sleeve length	
	2 × A to B	C to D	2 × B to G	Overarm C to E	Underarm B to F
50-54	56	42	26	55	31
56-60	62	43	28	57	33
62-66	68	46	30	60	34
68-72	74	48	32	64	38
74-78	80	50	34	68	40
80-84	86	54	36	72	42
86-90	92	57	38	75	44
92-96	98	59	40	80	46
98-102	104	59	42	83	47
104-108	110	60	44	84	48
110-114	116	60	46	85	49

Table 4 — Size designation and garment measurements for jerseys and cardigans for boys
(see Figure 1)

1	2	3	4	5	6
Size designation	Garment measurements cm, min.				
	Chest girth	Back length	Sleeve girth	Sleeve length	
	2 × A to B	C to D	2 × B to G	Overarm C to E	Underarm B to F
50-54	56	42	26	55	31
56-60	62	43	28	58	33
62-66	68	46	30	60	34
68-72	74	49	32	66	38
74-78	80	53	34	70	42
80-84	86	57	36	74	43
86-90	92	61	38	78	46
92-96	98	62	40	82	48
98-102	104	63	42	86	49
104-108	110	65	44	88	51
110-114	116	66	46	90	53

5.3 Make

5.3.1 General

The body, sleeves, neckbands, cuffs, waistbands, and, where relevant, the strapping of the cardigans and jerseys shall be of a fabric that complies with the requirements given in table 1 or table 2, as relevant. Sleeves shall be raglan or set-in, as specified by the purchaser, and shall be one-piece sleeves that are seamed under the arm and tapered to the cuff.

The shoulders of garments with set-in sleeves shall be stayed with

- an appropriate length of stay tape (see 4.2.2); or
- an appropriate length of the knitted fabric (that has been cut parallel to the course direction) of nominal width 6 mm.

5.3.2 Depth of waistband and length of cuffs

The depth of the waistband and the length of cuffs shall be as specified by the purchaser, and shall, in both cases, be in the range 60 mm to 100 mm, except that, in the case of sleeves with turn-back cuffs, the cuff length shall be as agreed between the purchaser and the supplier.

5.3.3 Neckband

The neckband shall be sewn or linked to the neck opening and shall be as follows:

- Crew-neck cardigans, and crew-neck and V-neck jerseys.** Folded width: 25-30 mm.
- Turtle-neck jerseys.** Folded width: 30-35 mm.
- Polo-neck jerseys.** Overall (single) width: 80-150 mm.

5.3.4 Front opening of cardigans

- Crew-neck cardigans.** Strapping of folded or single width at least 25 mm or a slide fastener shall have been sewn or, in the case of strapping, linked to the front edges of the cardigan. When a slide fastener is used, the raw edges of the knitted fabric shall have been overlocked and turned-in before the sewing-in of the slide fastener.

- b) **V-neck cardigans.** A continuous length of strapping of folded or single width at least 25 mm shall have been sewn or linked to the front edges and neck.

5.3.5 Depth of V-necks

Unless otherwise specified by the purchaser, the base of the "V" (see point H in figure 1) on a V-neck cardigan or jersey shall be in line with the base of the scye.

5.3.6 Buttonholes

Buttonholes shall be of the shirt type with a bar at each end and shall be equidistantly spaced. The length shall be such as to accommodate acceptably the relevant button.

5.4 Stitches and seams

5.4.1 General

All sewing shall be in accordance with ISO 4915 and ISO 4916.

5.4.2 Number of stitches

The number of stitches per 10 cm (for seams) shall be 40 ± 4 throughout.

6 Sampling

Sampling shall comply with ISO 2859-1.

7 Packing packaging, care-labelling, and marking

The requirements of Clause 5 of ARS 1568-1 shall apply.

8 Inspection and methods of test

8.1 Inspection

Visually examine and measure (in accordance with ARS 1568 each jersey or cardigan in the sample for compliance with all the requirements of sections 4 and 5 of this part of ARS 1568 for which tests to assess compliance are not given in 8.3-8.14 (inclusive).

8.2 Knitted structure

Determine by visual examination.

8.3 Composition

Determine by microscopical examination and or chemical analysis in accordance with ISO/TR 11827.

8.4 Mean wool fibre diameter

Use ISO 137.

8.5 Wales and courses per 10 cm

Use ASTM D8007.

8.6 Mass per unit area

Use ASTM D3776.

8.7 Dimensional changes on washing

Use ISO 6330, procedure D1. For acrylic garments, use drying procedure F and tumble-dry at room temperature. For wool and wool containing garments, use drying procedure G.

8.8 Colour fastness to light

Use ISO 105-B02.

8.9 Colour fastness to washing

Use ISO 105-C10.

8.10 Colour fastness to perspiration

Use ISO 105-E04.

8.11 Colour fastness to dry-cleaning

Use ISO 105-D01.

8.12 Resistance to pilling

Use the method given in ISO 12945-1 but use a test period of only 4 h.

8.13 Bursting strength

Use ISO 13938-1.

8.14 Breaking strength of sewing threads

Use ISO 2062.

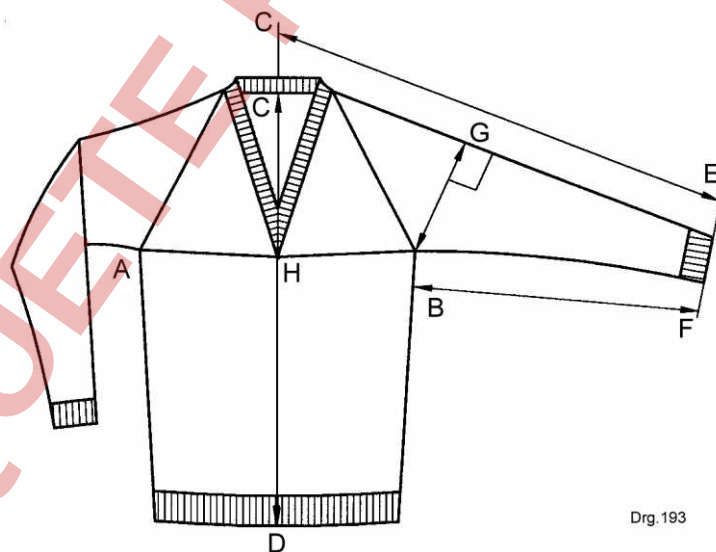


Figure 1 — Garment measurements

Annex A
(informative)

Additional information for guidance of manufacturers

A.1 Nominal linear density of yarns

High bulk acrylic: R74 Tex/2

Wool and wool-containing blends: R76 Tex/2

A.2 Nominal stitch length

Acrylic yarns: 5.40 mm

Wool and wool-containing yarns: 4.80 mm

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