
**School clothing - General requirements for
school clothing**

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Foreword

This Ethiopian Standard has been prepared under the direction of Technical Committee for Made-up-Textiles & Ready-Made Garments (TC 72) and published by the Ethiopian Standards Agency(ESA).

In preparing this Ethiopian Standard reference has been made to the ARS 1568: *School clothing - General requirements for school clothing*, prepared by African Regional Standards

Acknowledgement is made to the ARS (African Regional Standards) for the use of the said publication in preparing the standard.

School clothing - General requirements for school clothing

1. Scope

This part of Ethiopian standard specifies the general requirements for the materials, workmanship, packing, care-labeling, marking and inspection of school clothing.

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.

ES ISO 3758: Textiles — Care Labeling Code Using Symbols

ES 6582-1: Textile –school wear fabrics Part -1: Student's Trouser, Vest & skirts fabric Specifications

ES 6582-2: Textile –school wear fabrics Part -2: Student's shirt fabric Specifications

ES 6582-3: Textile –school wear fabrics Part -3: school student's uniform Sweater specification

ES ISO 4915: Textiles - Stitch Types - Classification and Terminology

ES ISO 4916: Textiles - Seam Types - Classification and Terminology

CEN/TR 16792, Safety of children's clothing — Recommendations for the design and manufacture of children's clothing — Mechanical safety

ES ISO 139: Textiles — Standard atmospheres for conditioning and testing

ES ISO 7211-2: Textiles — Woven fabrics — Construction — Methods of analysis — Part 2: Determination of number of threads per unit length

ES ISO 8559 Parts for Size designation of clothes

ES ISO 18890: Clothing — Standard method of garment measurement

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

3. Materials

3.1. Outer materials

3.1.1 Outer materials for the garment(s) given in column 1 of Table 1 shall comply with the requirements of the relevant part(s) of Ethiopian standard given in column 2.

Table 1 Outer materials

Garment	Standards(s)
Student's Trouser, Vest & skirt fabrics	According to ES 6582-1
Student's shirt	According to ES 6582-2
Student's uniform Sweater	According to ES 6582-3

3.1.2 The choice of the appropriate outer material and its colour(s) will be the prerogative of the school authorities. The choice will depend on climatic conditions and economic considerations.

3.2. Supplementary materials and components

The supplementary materials and components shall be of a colour as agreed upon between the purchaser and the supplier.

3.2.1. Linings and interlinings

Linings and interlinings used shall be appropriate to their functions and to the garment. Interlinings shall be fusible interlinings that are suitable for use in washable and dry-cleanable garments.

3.2.2. Pocketing

The type of pocketing used shall be appropriate to the type of garment.

3.2.3. Sewing threads

Sewing threads shall be of the types and ticket numbers recommended for the manufacture of the relevant type of garment, and shall comply with the applicable requirements of that standard.

3.2.4. Buttons

Buttons shall be free from burrs and sharp edges. Colored plastics buttons shall have been pigment dyed. Cloth-covered buttons shall be so constructed that the fabric is firmly secured around the entire periphery of the mould, and that the component parts are securely clinched together. The sizes of buttons shall be appropriate to the function of the buttons and to the type of garment. All buttons shall be securely attached in the appropriate positions; each garment shall have (sewn to the garment, in a suitable position) an additional button that is identical with those used on the garment.

The buttons shall be positioned such that it complies with CEN/TR 16792.

3.2.5. Press-studs, hooks and bars

All press-studs and hooks and bars shall be of an intrinsically corrosion-resistant material and shall have a smooth finish, and their sizes shall be appropriate to their function and to the type of garment.

3.2.6. Tapes, braids, bindings and cords

The color fastness and shrinkage properties of tapes, braids, bindings and cords shall not be inferior in any way to the color fastness and shrinkage properties of the material(s) with which the tapes, braids, bindings and cords are used.

3.2.7. Elastic braid or webbing

Elastic braid or webbing shall comply with the following requirements:

3.2.7.1. Narrow elastic fabrics shall

- a) Have been made in accordance with sound manufacturing practice,
- b) Be of a woven, knitted or braided structure incorporating natural rubber or synthetic elastomeric core yarns,
- c) Be grey, white or dyed fabrics, as required,
- d) When so required, include lettering, stripes or a figured design of the required colour(s),
- e) Be of acceptable uniform make, width, colour and finish, and
- f) Be free from defects that can impair the appearance, or serviceability (or both).

3.2.7.2. Narrow elastic strip shall

- a) Have been made in accordance with sound manufacturing practice,

- b) Be of a natural rubber or synthetic elastomeric material,
- c) Be of acceptable uniform make, width and finish, and
- d) Be free from defects that can impair the appearance, or serviceability (or both).

3.2.8. Stay tape

The stay tape shall be of a color that is an acceptable match to that of the knitted fabric.

3.3. Garments

3.3.1. Workmanship

Garments shall be cut and made with first-class workmanship throughout and shall be free from any defect that affects their appearance or can affect their serviceability (or both), and from marks, spots and stains incurred in the making-up. All seams shall be smooth and all stitching uniform. Seams and stitching shall be free from twists, pleats and puckers, and shall be sufficiently extensible to obviate seam cracking and undue shrinkage in use. All ends of sewing shall have been trimmed and loose threads removed. Buttons, buttonholes, press-studs and other similar types of fasteners shall be attached to at least two layers of fabric. Ends of sewing that are not secured in seams or in other sewing shall be adequately back-tacked. The garments in a consignment shall be of uniform and acceptable make, colour(s) and finish, and the matching of the shades of the components of a garment shall be such as to be acceptable.

3.3.2. Stitches and seams

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

3.3.3. Number of stitches

Unless otherwise specified by the purchaser/user, the number of stitches, when measured in accordance with ES ISO 7211-2 shall be as follows:

- a) **Seams**: 40 ± 4 per 10 cm;
- b) **Over locking**: 34 ± 4 per 10 cm;
- c) **blind-felling**: 25 ± 4 per 10 cm;
- d) Buttons: at least 14 per button;
- e) **Buttonholes**: at least 12 per 1 cm; and
- f) **Bar tacks**: at least 18 per 1 cm.

3.3.4. Size designation

The style, the size designations and the garment dimensions shall be such that the garments are comfortable to the wearer and suitable for the end use, and shall be as agreed upon.

The size labeling of the garment shall comply with ES ISO 8559-2.

4. Packing and packaging, care-labeling and marking

4.1. Packing and packaging

Garments shall be delivered in a clean and commercially dry condition, and shall be so packed that they will not be damaged during transportation or in storage. The garments shall be neatly folded, put into individual plastics envelopes, and then packed for transportation in acceptable boxes or cartons. Only garments of the same

material(s), colour(s) and style and of the same size designation shall be packed together in a bulk container (unless quantities ordered are such that the packing of garments in such a manner is not justified).

4.2. Care-labeling

Each garment shall have a woven or printed label that is permanently secured and that provides, in accordance with ES ISO 3758, correct and appropriate care instructions, and that may also bear the markings required in terms of 5.3.1(a) and (b). All care-labels and their markings shall be such that they will outlast the garments.

4.3. Marking

4.3.1. Garments

Each garment shall have a label securely attached to the garment, in an accessible position. The label shall be legibly and indelibly marked with the following particulars, except that the production- batch identification may be given on a separate label:

- a) The manufacturer's name or trade mark (or both);
- b) The size designation;
- c) The fiber composition of the appropriate outer material
- d) The identification of the production batch.
- e) Country of origin

4.3.2. Marking of the size designations

The marking required in terms of 5.3.1(b) shall be given in accordance with ES ISO 8559-2

4.4. Additional marking

When so required, garments shall bear information additional to that specified in 5.3.

5. Inspection and methods of test

5.1. Inspection

Visually examine and measure each garment in the sample for compliance with all the relevant requirements of this part of ES 6582 for which tests to assess compliance are not given in 6.2.

5.2. Dimensions

Use the relevant methods given in ES ISO 18890 to measure the dimensions of the garments. Provided that the average measurement of each dimension of the garments that constitute a consignment is within 1 % of the relevant specified value, allow a tolerance of ± 1.5 % for a measurement of an individual garment.

6. Sampling

The sampling carried out according to ES ISO 2859-1

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- ❖ Develop Ethiopian standards and establish a system that enable to check whether goods and services are in compliance with the required standards,
- ❖ Facilitate the country's technology transfer through the use of standards,
- ❖ Develop national standards for local products and services so as to make them competitive in the international market.

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