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Clothing — Standard method of garment measurement

Habillement — Méthode normalisée de mesurage des vêtements

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by ISO/TC 133, *Clothing sizing systems — Size designation, size measurement methods and digital fittings*.

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Introduction

This document is intended to serve as a global reference document for defining the key and common measurement points of a garment and the methodology to be used to measure garments, as well as to facilitate the maintenance of garment measurements and aid reduction of discrepancies in the product life cycle.

The points of garment measurements can be useful for (non exhaustive list):

— creation of table of measurements;

— developments of garment prototypes;

— stages of sample approval;

— production control;

— garment inspection and quality control;

— testing houses (e.g. determination of dimensional change of garments).

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Clothing — Standard method of garment measurement

1 Scope

This document defines the main measurement points and describes the method used to measure garment dimensions.

Additional measurement points can be determined between interested parties.

2 Normative references

The following documents are 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 139, *Textiles — Standard atmospheres for conditioning and testing*

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 https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
side neck point
SNP
position on the garment where the garment body intersects with the side of the neck

Note 1 to entry: Side neck point does not include any neck trim, collar or hood.

Note 2 to entry: "Side neck point" is known also as High Point Shoulder, HPS.

3.2
from the invisible line
FIL
imaginary line taken between two points

Note 1 to entry: It is used to determine an exact position of a measurement to be taken.

3.3
centre front
CF
vertical intersection that is centrally positioned on the front of a garment

3.4
centre back
CB
vertical intersection that is centrally positioned on the back of a garment

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3.5
required position
position of a point specified by the interested party, as input data, prior to measuring

Note 1 to entry: If a required position is not specified, the selected measurements cannot be carried out.

Note 2 to entry: A measurement based on a required position is identified by a code beginning with "Z" in Tables.

4 Measuring methodologies

4.1 General principle

The garment to be measured is laid on a flat surface, its measurement points identified and the measurements carried out between the relevant measurement points using a measurement device.

In some cases, other apparatus can be required for specific measurements when extended (see Annex A).

4.2 Apparatus

4.2.1 Measurement surface

Clean, flat and even surface, the dimensions of which are suitable for the garment to be laid flat with no overhang.

4.2.2 Measurement tape

Flexible and non-stretchable measurement tape, graduated in millimetres.

The measurement tape should be regularly checked to ensure its ends and edges present no damage. Calibration is recommended.

Any measurement device which leads to the same results may be used. The use of such measurement device should be reported.

4.3 Procedures

4.3.1 Preparation of the garments or textile articles

Select garments or textile articles to be measured.

Ensure that each garment or textile article is flat, in an ambient environment and without mechanical tension.

This preparation is especially important for knitted garments which should be in a "relaxed state".

When it is required by interested parties, if the garment conditioning and the garment measurements are carried out in a conditioned laboratory room, the standard atmosphere as specified in ISO 139 (i.e. 20 °C, 65 % RH) shall be used.

Lay down the garment or the textile article on the measurement surface (4.2.1), with any fasteners closed (e.g. buttons, slide fasteners, touch and close fasteners), unless otherwise stated. Place the garment or textile article as flat as possible, except the preformed garment or textile article (e.g. hat, bra cups).

Avoid any unattended folds, wrinkles and/or creases of the garment or textile article.

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