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Second edition
2020-08

Textiles — Methods for analysis of woven fabrics construction —

Part 5: Determination of linear density of yarn removed from fabric

Textiles — Méthodes d'analyse de la construction des tissus —

*Partie 5: Détermination de la masse linéique d'un fil prélevé dans
un tissu*



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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 of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 24, *Conditioning atmospheres and physical tests for textile fabrics*.

This second edition cancels and replaces the first edition (ISO 7211-5:1984), of which it constitutes a minor revision.

The changes compared to the previous edition are as follows:

- the normative reference to ISO/TR 5090 (withdrawn) has been replaced by ISO 1833-1;
- the normative reference to ISO/TR 6741-4 (withdrawn) has been replaced by a reference to the "agreed moisture regain" (same sentence as in ISO 1833-1);
- the mandatory [Clause 3](#), Terms and definitions, has been added and subsequent clauses have been renumbered;
- the formulae in [Clause 10](#) have been editorially revised to comply with the ISO Directives.

A list of all parts in the ISO 7211 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

The method for determining the linear density of yarn from a fabric differs from that of yarn from a package in that, in the former instance, the crimp imposed upon the yarn by the interlacing of warp and weft should be taken into account. Also, the long lengths of yarn used in tests from a package might not conveniently be taken from a fabric. The results obtained might be subject to appreciable personal error unless a standard method is adopted and adequate samples are taken.

[Clause 8](#) specifies the method for determination of the linear density of yarn removed from fabric, without removal of non-fibrous matter and [Clause 9](#) specifies the method for determination of linear density of yarn removed from fabric after removal of non-fibrous matter.

It is noteworthy that the linear density of yarn obtained by these methods might not be same as that of the original yarn used in the fabric.