

MAURITIAN  
STANDARD

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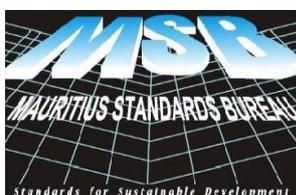
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**Textiles — Cotton yarns —  
Basis for specification**

ICS 59.080.20

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**Mauritius Standards Bureau  
Moka**

## National Foreword

This Mauritian Standard is identical with the International Standard **ISO 10290:2018**, *Textiles — Cotton yarns — Basis for specification* published by the International Organization for Standardization (ISO). It was adopted by the Mauritius Standards Bureau on the recommendation of the **Textiles, Paper & Footwear Standards Committee** and approval of the **Standards Council** on **27 June 2019**. It was notified in the Government Gazette on **27 July 2019\***.

For the purposes of this standard the following change should be made:

the 'decimal comma' should be replaced by 'decimal point'.

## General notice no 1373 of 2019



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*Mauritius Standards Bureau  
Villa Road  
Moka  
Mauritius*

*Telephone*           + (230) 433 3648  
*Fax*                    + (230) 433 5051/ 433 5150  
*E-mail*                [msb@intnet.mu](mailto:msb@intnet.mu)  
*Website*              <http://msb.intnet.mu>

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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](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 23, *Fibres and yarns*.

This second edition cancels and replaces the first edition (ISO 10290:1993), which has been technically revised. The main changes compared to the previous editions are as follows:

- the title has been changed to “*Textiles — Cotton yarns — Basis for specification*”;
- in [Clause 2](#), ISO 3951:1989 has been replaced by ISO 3951-4 and ISO 16549, ISO 17202, ASTM D2255, ASTM D5647 have been added;
- in [Clause 3](#), the definitions of “tenacity”, “breaking tenacity” and “twist factor” have been revised;
- in [Clause 4](#), three subclauses (“yarn faults”, “yarn appearance” and “yarn hairiness”) have been added;
- in [Clause 5](#), three items (“quality level of consignment”, “end use of yarn” and “packing and storage condition”) have been added;
- [Table A.1](#) has been expanded to give examples of specifications of breaking elongation, hairiness and faults.

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](http://www.iso.org/members.html).

# Textiles — Cotton yarns — Basis for specification

## 1 Scope

This document specifies criteria, with relevant test methods, to be applied in describing single spun grey cotton yarns. These yarns are widely used in international trade.

## 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 2, *Textiles — Designation of the direction of twist in yarns and related products*

ISO 2060, *Textiles — Yarn from packages — Determination of linear density (mass per unit length) by the skein method*

ISO 2061, *Textiles — Determination of twist in yarns — Direct counting method*

ISO 2062, *Textiles — Yarns from packages — Determination of single-end breaking force and elongation at break using constant rate of extension (CRE) tester*

ISO 3951-4, *Sampling procedures for inspection by variables — Part 4: Procedures for assessment of declared quality levels*

ISO 6741-1, *Textiles — Fibres and yarns — Determination of commercial mass of consignments — Part 1: Mass determination and calculations*

ISO 6939, *Textiles — Yarns from packages — Method of test for breaking strength of yarn by the skein method*

ISO 16549, *Textiles — Unevenness of textile strands — Capacitance method*

ISO 17202, *Textiles — Determination of twist in single spun yarns — Untwist/retwist method*

ASTM D2255, *Standard test method for grading spun yarns for appearance*

ASTM D5647, *Standard guide for measuring hairiness of yarns by the photo-electric apparatus*

## 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 <http://www.electropedia.org/>

### 3.1

#### **linear density**

mass per unit length of a yarn

Note 1 to entry: It is expressed in tex or multiples or sub-multiples thereof (see ISO 1144).

[SOURCE: ISO 1139:1973, 3.7]