# INTERNATIONAL STANDARD

ISO 19983

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# Rubber — Determination of precision of test methods

Caoutchouc — Détermination de la fidélité des méthodes d'essai



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#### **Foreword**

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URL: www.iso.org/iso/toreworu.num.

This document was prepared by Technical Committee ISO/TC 45, Rubber and rubber products, Subcommittee SC 2, Testing and analysis.

### Introduction

The procedures used for several years by ISO/TC 45/SC 2 for estimating precision of test methods by means of interlaboratory tests (ISO/TR 9272) were closely related to ASTM D4483. ISO/TR 9272 se, need, 3725 (alt), rubbers. was found to have serious flaws which users were using work-arounds to counteract. It became clear that ISO/TR 9272 needed to be replaced and it was concluded that the best option was to base a new standard on ISO 5725 (all parts) with specific choices and variations of procedures to suit the particular requirements of rubbers.

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## **Rubber** — **Determination of precision of test methods**

#### 1 Scope

This document provides guidelines and specifies requirements for estimating the precision of rubber test methods by means of interlaboratory test programmes based on the procedures given in ISO 5725 (all parts).

#### 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 3534-1, Statistics — Vocabulary and symbols — Part 1: General statistical terms and terms used in probability

ISO 3534-2, Statistics — Vocabulary and symbols — Part 2: Applied statistics

ISO 5725-1:1994, Accuracy (trueness and precision) of measurement methods and results — Part 1: General principles and definitions

ISO 5725-2, Accuracy (trueness and precision) of measurement methods and results — Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method

ISO 5725-3, Accuracy (trueness and precision) of measurement methods and results — Part 3: Intermediate measures of the precision of a standard measurement method

ISO 5725-4, Accuracy (trueness and precision) of measurement methods and results — Part 4: Basic methods for the determination of the trueness of a standard measurement method

ISO 5725-5, Accuracy (trueness and precision) of measurement methods and results — Part 5: Alternative methods for the determination of the precision of a standard measurement method

ISO 5725-6, Accuracy (trueness and precision) of measurement methods and results — Part 6: Use in practice of accuracy values

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 3534-1, ISO 3534-2, ISO 5725 (all parts), and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <a href="http://www.electropedia.org/">http://www.electropedia.org/</a>
- ISO Online browsing platform: available at <a href="http://www.iso.org/obp">http://www.iso.org/obp</a>

#### 3.1

#### day-to-day repeatability

precision under the conditions where independent test results are obtained with the same method on identical test items in the same laboratory by the same operator using the same equipment

Note 1 to entry: The time interval between repeated tests is normally between one and seven days.