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**Rubber- or plastics-coated fabrics —  
Determination of bursting strength —**

**Part 1:  
Steel-ball method**

*Supports textiles revêtus de caoutchouc ou de plastique —*

*Détermination de la résistance à l'éclatement —*

*Partie 1: Méthode utilisant une bille d'acier*

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# Contents

	Page
Foreword.....	iv
Introduction.....	vi
<b>1 Scope.....</b>	<b>1</b>
<b>2 Normative references.....</b>	<b>1</b>
<b>3 Terms and definitions.....</b>	<b>1</b>
<b>4 Principle.....</b>	<b>1</b>
<b>5 Apparatus and reagents.....</b>	<b>1</b>
<b>6 Sampling.....</b>	<b>2</b>
<b>7 Preparation of test pieces.....</b>	<b>3</b>
<b>8 Time-interval between manufacture and testing.....</b>	<b>3</b>
<b>9 Atmosphere for conditioning and testing.....</b>	<b>3</b>
9.1 For conditioning.....	3
9.2 For testing.....	3
<b>10 Procedure.....</b>	<b>3</b>
<b>11 Test report.....</b>	<b>4</b>
<b>Bibliography.....</b>	<b>5</b>

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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 45, *Rubber and rubber products*, Subcommittee SC 4, *Products (other than hoses)*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 248, *Textiles and textile products*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 3303-1:2012), which has been technically revised.

The main changes compared to the previous edition are as follows:

- in [Clause 2](#), ISO 7500-1:2018 has been added for the calibration of force measurement system;
- the title of [Clause 5](#) has been changed to “Apparatus and reagents”;
- reagents have been added to [Clause 5](#);
- in [5.1](#), the testing machine has been changed to that of power driven, equipped with an electronic force measurement system and an electronic crosshead displacement monitor.
- in [5.2](#) and bibliography, EN 12332-1 has been deleted as it was replaced with this document;
- in [Figure 1](#), the round direction of clamp has been modified;
- in [5.6](#), blotting paper has been added;
- in [7.3](#), the preparation of wet test pieces has been specified.
- in [9.1](#), the recommendations on conditioning for fabrics coated on one side or on both sides have been added separately;
- in [10.6](#), procedure for wet test pieces has been specified.

A list of all parts in the ISO 3303 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](http://www.iso.org/members.html).

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## Introduction

The bursting strength of coated fabrics is often used as a measure of the multidirectional modulus of the material, as opposed to tensile properties which only provide guidance to the coated-fabric strength in one plane. In addition, bursting strength is more appropriate for testing materials prone to necking, such as coated fabrics with knitted substrates.

The method described in this document, which employs a steel ball, is useful as it represents an impact failure typical of one which would be experienced in service.

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