

This is a preview of "ISO 13934-1:2013". Click here to purchase the full version from the ANSI store.

Second edition  
2013-04-15

---

---

## **Textiles — Tensile properties of fabrics —**

### **Part 1: Determination of maximum force and elongation at maximum force using the strip method**

*Textiles — Propriétés des étoffes en traction —*

*Partie 1: Détermination de la force maximale et de l'allongement à la force maximale par la méthode sur bande*



Reference number  
ISO 13934-1:2013(E)

© ISO 2013



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2013

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

This is a preview of "ISO 13934-1:2013". Click here to purchase the full version from the ANSI store.

## Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<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>3</b>
<b>5 Sampling</b> .....	<b>4</b>
<b>6 Apparatus</b> .....	<b>4</b>
6.1 CRE machine.....	4
<b>7 Atmosphere for conditioning and testing</b> .....	<b>5</b>
<b>8 Preparation of test specimen</b> .....	<b>5</b>
8.1 General.....	5
8.2 Dimensions.....	5
8.3 Preparation of test specimens.....	5
8.4 Wet test specimens.....	6
<b>9 Procedure</b> .....	<b>6</b>
9.1 Gauge length.....	6
9.2 Rate of extension or elongation.....	6
9.3 Mounting of test specimens.....	6
9.4 Operation.....	7
9.5 Tests on wet test specimens.....	8
<b>10 Calculation and expression of results</b> .....	<b>8</b>
<b>11 Test report</b> .....	<b>8</b>
<b>Annex A (informative) Suggested procedure for sampling</b> .....	<b>10</b>
<b>Annex B (informative) Locations of test specimens cut from a laboratory sample</b> .....	<b>11</b>
<b>Bibliography</b> .....	<b>12</b>

## 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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

The first edition of this International Standard ISO 13934-1 was prepared by the European Committee for Standardization (CEN) in collaboration with ISO Technical Committee TC 38, Textiles, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

ISO 13934-1 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 13934-1:1999), of which it constitutes a minor revision.

ISO 13934 consists of the following parts, under the general title *Textiles — Tensile properties of fabrics*:

- *Part 1: Determination of maximum force and elongation at maximum force using the strip method*
- *Part 2: Determination of maximum force using the grab method*

This is a preview of "ISO 13934-1:2013". [Click here to purchase the full version from the ANSI store.](#)

## Introduction

This part of ISO 13934 has been prepared in the context of several test methods for determination of certain mechanical properties of textiles using mainly tensile testing machines, e.g. tensile properties, seam tensile properties, tear properties, seam slippage. The procedure for these standards agrees where appropriate. The results obtained by one of the methods should not be compared with those obtained by the other methods.