

STANDARDS AUSTRALIA

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**RECONFIRMATION**

**OF**

**AS 2001.5.2—1995**

**Methods of test for textiles**

**Method 5.2: Dimensional change—Determination of relaxation and hygral  
properties of woven fabrics**

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**RECONFIRMATION NOTICE**

Technical Committee TX-020 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 6 July 2016.

The following are represented on Technical Committee TX-020:

Ag Research  
Australian Wool Processors Council  
AWTA Textile Testing  
Council of Textile and Fashion Industries of Australia  
Drycleaning Institute of Australia  
National Association of Testing Authorities Australia  
RMIT University  
The Textile Institute

## NOTES

# Australian Standard®

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## Methods of test for textiles

### Method 5.2: Dimensional change—Determination of relaxation and hygral properties of woven fabrics

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#### PREFACE

This Standard was prepared by the Standards Australia Committee on Testing of Textiles.

In order to assess the dimensional stability of woven fabrics in tailoring and subsequent wear, it is necessary to examine each of the two distinctly different properties. Firstly, the potential of the fabric to shrink due to stresses incurred during finishing and then having removed these stresses, to evaluate the degree to which the fabric will expand and contract in proportion to moisture content. These properties are commonly termed *relaxation shrinkage* and *hygral change* respectively.

Results obtained from this method provide a guideline as to the maximum level of relaxation shrinkage that may occur within a given fabric and the hygral expansion/contraction that can occur in taking the fabric from zero regain to saturation and vice versa.

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#### METHOD

**1 SCOPE** This Standard describes a procedure for determining the relaxation shrinkage and hygral change properties of woven fabrics.

**2 OBJECTIVE** This Standard is intended to provide manufacturers and others seeking to determine the dimensional stability of a fabric due to processing, as well as its moisture content with a suitable method for obtaining that information.

**3 APPLICATION** This Standard applies to woven fabrics. It does not apply to knitted fabrics because they lack stability in the wet state.

**4 REFERENCED DOCUMENTS** The following documents are referred to in this Standard:

AS

1199 Sampling procedures and tables for inspection by attributes

2001 Methods of test for textiles

2001.1 Method 1: Conditioning procedures

**5 DEFINITIONS** For the purpose of this Standard, the definitions below apply.

**5.1 Hygral change**—the reversible dimensional change which occurs when fabrics absorb and desorb moisture.