

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2001.2.5—1991

Methods of test for textiles

**Method 2.5: Physical tests—Determination of the number of threads per unit
length in woven fabric**

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®

Methods of test for textiles

Method 2.5: Physical tests— Determination of the number of threads per unit length in woven fabric

PREFACE

This Standard was prepared by the Standards Australia Committee on Testing of Textiles to supersede the 1981 edition.

This edition has changed requirements for sampling, and for selection of test specimens of open weave fabrics.

METHOD

1 SCOPE This Standard sets out a method which provides three tests for the determination of the number of threads per unit length in woven fabrics.

The method is applicable to woven fabrics of all types. Each test, and its preferred use, is as follows:

- (a) *Test A*—by dissection—suitable for all woven structures, including complicated structures where individual threads are not readily distinguishable.
- (b) *Test B*—by traversing thread counter—suitable for all woven fabrics in which the threads or pattern repeats are distinguishable.
- (c) *Test C*—by counting glass—suitable for fabrics with 25 or more threads per centimetre, where the threads or pattern repeats are distinguishable.

2 REFERENCED DOCUMENTS

AS

1199 Sampling procedures and tables for inspection by attributes

2001 Methods of test for textiles

2001.1 Method 1: Conditioning procedures

3 PRINCIPLE The number of ends and picks in accurately measured lengths of woven fabric are counted along a line at right angles to the yarn being considered. The lengths of fabric are chosen so that the number of threads counted, in each case, is not less than 50.

4 APPARATUS The following items of apparatus are required:

- (a) *For Test A*—

Method I

- (i) A gauge (see Figure 1) comprising a clamp holding two short pins, parallel to each other, such that the distance between the pin points is known to within an accuracy of 0.2 mm.
- (ii) Means of cutting test pieces.

Method II A cutting press having a smooth flat surface and a cutting template, the dimensions of which are known to an accuracy of 0.2 mm.

- (b) *For Test B*—a traversing thread counter, consisting of a low powered microscope mounted so that it can be traversed over a base by means of a screw and graduated to an accuracy of 0.2 mm.
- (c) *For Test C*—a counting glass, the dimensions of which are known to within an accuracy of 0.2 mm.