

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2001.2.13—1987

Methods of test for textiles

Part 2.13: Physical tests—Determination of mass per unit area and mass per unit length of fabrics

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
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NOTES

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
METHODS OF TEST FOR TEXTILES

PART 2—PHYSICAL TESTS

AS 2001.2.13
DETERMINATION OF MASS PER UNIT AREA AND
MASS PER UNIT LENGTH OF FABRICS

PREFACE

This edition of this standard was prepared by the Association's Committee on Testing of Textiles, to supersede in part AS 1587—1973, Methods for Measurements of Textile Fabrics—Length, Width, Thickness, Mass per Unit Length and Mass per Unit Area.

It is one of a series of methods which takes cognizance of the work of a technical committee of the International Organization for Standardization (ISO/TC 38, Textiles) and is being adapted to suit Australian conditions.

This standard takes particular account of ISO 3801-1977, Textiles—Woven fabrics—Determination of mass per unit length and mass per unit area.

METHOD

1 SCOPE. This standard sets out a method for determination of mass per unit area of fabrics. The mass per unit length may also be calculated.

2 APPLICATION. The method is applicable to textile fabrics in all forms.

3 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

AS 2001 Methods of Test for Textiles
AS 2001.1 Conditioning Procedures
AS 2001.2.12 Physical Tests—Determination of Width of Fabrics.

4 PRINCIPLE. Specimens of known dimensions are taken and weighed and the mass per unit area is calculated. The mass per unit length may be calculated after determining the width of fabric.

5 APPARATUS.

5.1 Conditioning facility. Means of providing and maintaining the standard atmosphere in accordance with AS 2001.1.

5.2 Weighing device. A balance capable of determining the mass of pieces to an accuracy of ± 0.2 percent.

5.3 Cutting device. A cutting device or template, to enable a specimen at least 100 mm $\times$ 100 mm to be cut, or a circular cutter of area 10 000 mm². The accuracy of cutting the specimen must be within 1 percent of the area.

6 SAMPLE AND TEST SPECIMENS. Care should be taken to ensure that the operator's hands are dry. Excessive handling of the sample and test specimens should be avoided.

6.1 Sample. The sample shall be selected in one of the following ways:

- (a) According to directions given in the relevant material specification.
- (b) According to the procedure agreed upon by the interested parties if such directions are not included in the material specification.
- (c) According to procedures approved by SAA for textile products*, if directions on sampling are not included in the material specification.

6.2 Conditioning. Condition the fabric sample in accordance with AS 2001.1. Prepare test specimens from the sample and conduct subsequent testing without removal from the standard atmosphere.

* In course of preparation.