

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

METHODS OF TEST FOR TEXTILES

PART 5—DIMENSIONAL CHANGE

AS 2001.5.5
DETERMINATION OF DIMENSIONAL CHANGE IN
LAUNDERING OF TEXTILE FABRICS AND GARMENTS—
CUBEX MACHINE METHOD

PREFACE

This edition of this standard was prepared by the Association's Committee on Testing of Textiles. It supersedes in part AS 1287, Methods for the Determination of Dimensional Change in Fabrics, Part 5—1974, Dimensional Change in Laundering of Woven and Knitted Fabrics and Garments.

In the preparation of this standard, the Committee has recognized the need to include both industrial and domestic washing treatments along with alternative drying procedures. The washing treatments in this standard utilize the Cubex International Shrinkage Testing Apparatus, which is commonly used in the evaluation of the washing performance of fabrics and garments containing wool.

A separate standard has been prepared for industrial and domestic washing treatments using automatic washing machines, and has been documented as AS 2001.5.4. These washing treatments utilize other machines which may not produce results which are comparable to the Cubex machine.

 METHOD

1 SCOPE. This standard sets out a method for determining the dimensional change of textile fabrics and garments during the laundering process.

The five procedures range in severity from hand washing to severe industrial washing. Two drying procedures are included, one of which involves no mechanical action while the alternative does involve mechanical action which may cause further dimensional changes to occur.

2 APPLICATION. The method is applicable to fabrics and garments made from natural and man-made fibres. It is commonly used for evaluating the washing performance of fabrics and garments containing wool.

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

- AS 2001 Methods of Test for Textiles
 2001.1 Conditioning Procedures
 2001.5.1 Dimensional Change—General Requirements.

4 PRINCIPLE. Specimens of the fabric or garments under test are marked, measured, and washed in the Cubex machine in a standard washing solution. After rinsing and drying, the resultant dimensional changes are measured, calculated and reported.

5 REAGENTS.

- 5.1 Neutral solution.** Containing for each litre—
- (a) *Sodium dihydrogen phosphate.* Anhydrous (NaH_2PO_4) 0.5 g
 - (b) *Disodium hydrogen phosphate.* Anhydrous (Na_2HPO_4) 1.0 g
 - (c) *Non-ionic wetting agent.* A non-ionic wetting agent of the ethylene oxide alkyl phenol condensate type (e.g. Lissapol TN or Penetrax) 0.5 g
 - (d) *Water.* To make 1 L