

Australian Standard[®]

**METHODS OF TEST FOR
TEXTILES**

**METHOD 2.1—PHYSICAL
TESTS—
DETERMINATION
OF MEAN FIBRE
DIAMETER OF
TEXTILE FIBRES
BY
MEASUREMENT
OF PROJECTED
IMAGES**

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The following interests are represented on Committee TX/20:

Australian Knitting Industries Council
Australian Wholesale Softgoods Federation
Australian Wool Corporation
AWTA Textile Testing
Brisbane College of Advanced Education
Commission Dyers and Finishers Association of Australia
Confederation of Australian Industry
CSIRO, Division of Wool Technology
Department of Defence
Melbourne College of Textiles
Railways of Australia Committee
Society of Dyers & Colourists of Australia & New Zealand
Textile Clothing & Footwear Council of Australia
University of New South Wales
Wool Textile Manufacturers of Australia

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PREFACE

This Standard was prepared by the Association’s Committee on Testing of Textiles to supersede AS 2001.2.1 — 1978.

The method takes cognizance of the work of a technical committee of the International Organization for Standardization, ISO/TC 38, and has been adapted to suit Australian conditions.

Whilst this Standard was largely based on ISO 137, consideration has been given to the following documents:

BS 2043	<i>Method for the determination of wool fibre fineness by the use of a projection microscope</i>
IWTO-8-66	<i>Method of determining wool fibre diameter by the projection microscope</i>
DEF(Aust) 5037	<i>Method A 25, Annex A, Estimation of wool fineness numbers from measurement of fibre diameter of wool in yarn or fabric</i>
ASTM D2130	<i>Standard test method for diameter of wool and other animal fibres by microprojection</i>

While the above methods relate primarily to the measurement of the mean fibre diameter of wool, this method has been expanded to include other types of fibres which have a regular circular cross-section.

This Standard has given more attention to alternative sampling procedures from a bulk supply.

It should be noted that at the time that this Standard was published a Standard for the procedure to be used in taking a sample of a fabric was being prepared. It is recommended that if this Standard is available it should be consulted where necessary.

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