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Australian Standard METHODS OF TEST FOR TEXTILES

PART 3—CHEMICAL TESTS

AS 2001.3.4 DETERMINATION OF SOLVENT-SOLUBLE MATTER

PREFACE

This standard was prepared by the Association's Committee on Testing of Textiles. It describes a procedure for the determination of solvent-soluble matter in textiles. The method may be used to determine this parameter at any stage of the processing of textiles which are not soluble in the selected solvent.

During the preparation of this standard, reference was made to the following standards:

- AS 2001.2.2 Determination of Corrected Invoice Mass of Textile Materials
- ASTM D 1574 Test for Extractable Matter in Wool
- ASTM D 2257 Test for Extractable Matter in Yarns
- BS 3477 Determination of Oils, Fats and Waxes in Cotton
- BS 3582 Method for the Determination of Oils, Fats and Waxes in Wool
- ISO 3074 Wool—Determination of Dichloromethane-soluble Matter in Combed Sliver
- IWS TM - 136 Method of Test for the Determination of Dichloromethane Soluble Matter in Textiles
- IWTO-10-66(e) Method for the Determination of the Dichloromethane Soluble Matter in Combed Wool Sliver

METHOD

1 SCOPE. This standard sets out a method for determining the solvent-soluble matter in textiles.

NOTE: It should be recognized that the selected solvents may not remove all extractable matter, nor can the individual solvents be assumed to remove specific extractable components.

2 APPLICATION. The method is applicable to textiles in all forms, provided that the textile is insoluble in the solvent selected.

NOTE: Certain finishing treatments or drying prior to testing may interfere with the determination.

3 REFERENCES. This standard makes reference to the following Australian standards:

- AS 1980 Method for Core Sampling of Raw Wool in Bales

AS 2119 Method for Sampling and Cutting Specimens of Textile Floor Coverings for Testing.

4 DEFINITION. For the purpose of this standard, the following definition applies:

Solvent-soluble matter—non fibrous material in or on yarn or fibre, usually of an oily or waxy nature, removable by organic solvents.

5 PRINCIPLE. The specimen is extracted in a Soxhlet apparatus with the selected solvent (see Clause 6). The solvent is evaporated, the residue and the specimen are dried and weighed separately. The amount of solvent-soluble matter is reported as a percentage of the oven-dry mass of the extracted specimen.