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JIS L 1099 : 2006
(JTETC)

**Testing methods for water vapour
permeability of textiles**

ICS 59.080.01

Reference number : JIS L 1099 : 2006 (E)

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Textile Evaluation Technology Council (JTETC) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS L 1099**: 1993 is replaced with this Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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In the event of any doubts arising as to the contents,
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Testing methods for water vapour permeability of textiles

1 Scope This Japanese Industrial Standard specifies the testing methods for water vapour permeability of textiles.

2 Normative references The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS K 8125 *Calcium chloride (for U-tube)*

JIS K 8363 *Potassium acetate*

JIS L 0105 *General principles of physical testing methods for textiles*

3 Term and definition For the purpose of this Standard, the following term and definition applies:

- a) **water vapour permeability** the mass (g) of water vapour that has permeated a textile at a specified temperature and under a specified humidity is converted to the value per 1 m² of its textile and 1 h

4 Place of testing The testing shall be carried out at a place simulating, as far as practical, the standard condition specified in **5.1** of **JIS L 0105** and the temperature and relative humidity at the time of testing shall be mentioned in the test report.

5 Sampling and preparation of sample and test specimen The sample and test specimen shall be sampled and prepared in accordance with **6.3** or **6.4** of **JIS L 0105**. The test specimen shall be three pieces of the size in table 1 respectively.

6 Kind of test and size of test specimen The test shall be in accordance with any one of table 1.

Table 1 Kind of test and size of test specimen

Kind of test			Size of test specimen
Method A	Method A-1	Calcium chloride method	Approx. 7 cm in diameter
	Method A-2	Water method	
Method B	Method B-1	Potassium acetate method	Approx. 20 cm × 20 cm
	Method B-2	Alternative method of potassium acetate method	

NOTE : Potassium acetate method can not be applied to the sample permeated by water at the time of testing. The sample permeated by water shall be measured by the alternative method of potassium acetate method.