

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 675

DETERMINATION OF DIMENSIONAL CHANGE IN WOVEN FABRICS
SUBJECTED TO LAUNDERING NEAR THE BOILING POINT

1st EDITION

February 1968

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BRIEF HISTORY

The ISO Recommendation R 675, *Determination of dimensional change of woven fabrics subjected to laundering near the boiling point*, was drawn up by Technical Committee ISO/TC 38, *Textiles*, the Secretariat of which is held by the British Standards Institution (BSI).

Work on this question by the Technical Committee began in 1952 and led, in 1964, to the adoption of a Draft ISO Recommendation.

In February 1966, this Draft ISO Recommendation (No. 892) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Argentina	India	Spain
Australia	Iran	Sweden
Austria	Israel	Switzerland
Belgium	Japan	Turkey
Canada	Korea, Rep. of	U.A.R.
Chile	Norway	United Kingdom
Czechoslovakia	Poland	U.S.A.
Denmark	Romania	U. S. S. R.
Germany	South Africa,	
Hungary	Rep. of	

Three Member Bodies opposed the approval of the Draft :

France
Italy
Netherlands

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council which decided, in February 1968, to accept it as an ISO RECOMMENDATION.

DETERMINATION OF DIMENSIONAL CHANGE IN WOVEN FABRICS SUBJECTED TO LAUNDERING NEAR THE BOILING POINT

1. SCOPE

This ISO Recommendation describes a method of test for determining the dimensional change (shrinkage or stretch) of all types of woven fabrics normally subjected to commercial or home laundering near the boiling point.

NOTES

1. The test has been devised principally for cotton fabrics. If it is applied to other fabrics such as linen or rayon, clause 7.5 should be consulted.
2. The method is intended only for the assessment of dimensional changes undergone by a woven fabric subjected to a single laundering. When it is desired to determine the amount of progressive dimensional change, the test specimen may be washed repeatedly and the results reported so as clearly to indicate the amount of dimensional change in the laundered specimen as compared with the original dimensions of the unwashed specimen and the number of testing cycles to which the specimen has been subjected.

2. PRINCIPLE

A specimen is washed in a cylindrical reversing laundry machine under specified conditions. It is extracted and pressed without preliminary drying. Distances marked on the specimen in warp and weft (filling) directions are measured before and after it is laundered.

3. REAGENTS

3.1 *Detergent, soap*

A stock solution may be prepared by dissolving 0.5 kg (1 lb) of soap in 4 litres (1 gallon US) of hot water. When cooled, this solution forms a thick homogeneous jelly which may be used as required.

Soap meeting the following specification is satisfactory :

Moisture and volatile matter at 105 °C (221 °F)	10.0 % max.
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride	4.0 % max.
Free alkali, calculated as NaOH	0.2 % max.
Matter insoluble in water	1.0 % max.
Titre of the mixed fatty acids prepared from the soap	39 °C min.
Anhydrous soap content	85.0 % min.

3.2 *Water*

Soft water (not more than 50 parts per million hardness) should be used (see Annex).

3.3 *Anhydrous sodium carbonate*