

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1420

DETERMINATION OF THE IMPERMEABILITY TO WATER
OF FABRICS COATED WITH RUBBER OR PLASTICS

1st EDITION

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BRIEF HISTORY

The ISO Recommendation R 1420, *Determination of the impermeability to water of fabrics coated with rubber or plastics*, was drawn up by Technical Committee ISO/TC 45, *Rubber*, the Secretariat of which is held by the British Standards Institution (BSI).

Work on this question led to the adoption of Draft ISO Recommendation No. 1420, which was circulated to all the ISO Member Bodies for enquiry in December 1967. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	India	New Zealand
Austria	Iran	Poland
Czechoslovakia	Ireland	Spain
France	Israel	Sweden
Germany	Italy	Switzerland
Greece	Japan	U.A.R.
Hungary	Netherlands	United Kingdom

The following Member Body opposed the approval of the Draft :

U.S.A.

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

DETERMINATION OF THE IMPERMEABILITY TO WATER OF FABRICS COATED WITH RUBBER OR PLASTICS

1. SCOPE

This ISO Recommendation lays down the test conditions for testing the impermeability to water of fabrics coated with rubber or plastics. The purpose of the test is to demonstrate the continuity of the coating, and its ability to resist the passage of water under given conditions of pressure.

2. PRINCIPLE OF THE METHOD

The coated fabric is subjected to a hydrostatic pressure of 1 m head of water to verify that no trace of water penetrates the coating.

According to the application of the coated fabric, the test is conducted either

- (1) on the coated fabric as received, or
- (2) on the coated fabric after certain artificial ageing tests.

3. APPARATUS

The apparatus consists of a clamp for holding the test piece, and a means (for example a constant level device) for providing a column of water whose level can be raised to apply pressure to the test piece.

A pressure vessel should form the lower part of the clamp, and be provided with inlet and outlet parts for holding and releasing the pressure.

The upper part of the clamp should be provided with a suitable means of closure with the test piece in position between it and the pressure vessel. Rubber gaskets should be used on each side of the test piece to ensure greater resistance to leakage under pressure. A scale should be provided to indicate the head of water applied to the test piece.

4. TEST PIECE

The test piece should be taken at not less than 0.10 m from the selvedge and not less than 1 m from the end of the roll or piece, and the diameter or side of the test piece should be between 130 and 200 mm.