

ON STEAM

(IN ENGLISH)

INESCOP is a member of:

LABORATORY REPORT

ENAC

National Organization
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European Union of
Institutes of Investigation
of Footwear

FEDIT

Spanish Federation of
Innovation Organizations
and Technology

AENOR

Spanish Association of
Normalization and Certification

AECC

Spanish Association for
The Quality

UITIC

International Union of Technicians
Of the Footwear Industry

OTRI

Office of Transference of
Investigation Results

FUNDEUN

Foundation Company-University
of Alicante

FEICRO

Federation of European Industrial
Organizations of Cooperative Investigation

OPTI

Observatory of Technological
Industrial Prospective

XARXA SECTOR ADOBER

Network of Spanish Centres of
Investigation on Tannings

SUBJECT: PHYSICAL TESTS ON TEXTILES

APPLICANT: ANTONIO MORON DE BLAS,S.L.

REPORT N°: R-09119380

(R-09119380)

I. SAMPLES:

One sample of Fabric without type weaves fibers agglomerated of colours beige. Reference ON STEAM. For instep of footwear of professional use. _____

II. SOLICITED TESTS:

- RESISTANCE TO THE TEAR (UNE-EN ISO 20344: 2005, 6.3)
- PERMEABILITY TO THE STEAM OF WATER (IN ISO 20344:2004, 6.6)
- STEAM OF WATER COEFFICIENT (IN ISO 20344:2004, 6.8)
- RESISTANCE TO ABRASION (UNE-EN ISO 20344:2005 6.12)
- SOLIDITY TO THE RUBBING (UNE-EN ISO 11644:1999)
- ABSORPTION AND STATIC ELIMINATION OF WATER (UNE-EN ISO 2417:2003)
- TEST OF THE DROP (UNE-EN ISO 15700:2000)

III. RESULTS:

The following table gathers the obtained results: _____

TEST	ON STEAM		VALUE OF REFERENCE ⁽¹⁾
	A	B	
R. TEAR N	50	57	> 15
PERMEAB.STEAM Mg/cm2.h	13.5		≥ 2
STEAM COEFF. Mg/cm2	109.4		≥ 20
R. ABRASION_ Cycles Aspect	<u>Dry</u> 25.600 Without breakage	<u>Humid</u> 12.800 Without breakage	<u>Dry</u> 25.600 <u>Humid</u> 12.800 Without breakage
S.RUBBING Transf.	<u>Dry</u> 5	<u>Humid</u> 5	----
ABS. ST. WATER %	<u>15 min</u> 297	<u>30 min</u> 318	----
TEST DROP Aspect Time absorption	none 2 seg		---- ----

A and B: Perpendicular directions to each others. _____

(1) Exigencies according to UNE-EN ISO 20345-7:2005 _____

(R-09119380)

IV. ENVIROMENTAL CONDITIONS:

Except when other conditions are specified, the tests that appear in the present report have made in the following environmental conditions:

Temperature: $23 \pm 2^{\circ}\text{C}$

Relative Humidity: $50 \pm 5\%$

Arnedo, 18th November 2009

INESCOP

Signed: Carlos M. Marco Valle
Chemical Sciences Grad.

(R-09119380)

V. PRESCRIPTIONS:

1. INESCOP responds only of the results briefed in the report that exclusively talks about the materials or samples that are indicated in the same one and that they are in his power. Except for express mention, the samples freely have been chosen and sent by the applicant.
2. None of the indications formulated in this report can have the character of guarantee for the trade names that in their case are mentioned.
3. Generally, and except for express indication, the test materials will conserve six months after their use and, after this term, verifications will not be able to be made.
4. The results will be considered like priority of the applicant and, without previous authorization, INESCOP will abstain to communicate them to third. Nevertheless, spent a month of the delivery of the report, INESCOP will be able to publish the results with statistical or scientific aims.
5. The considered uncertainties of the tests credited by ENAC are to disposition of the client in INESCOP.
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8. Supposing that it is tried to the present use report like expert test before any judicial organ, one will inexcusably require the acceptance and express previous conformity of INESCOP. To the indicated effects the technicians of INESCOP that elaborate the report could not be mentioned in quality of witnesses in the judicial procedure in which this report is used expertly.

This Institute is authorized of the Main Directorate of Information and Commercial Inspection of the Ministry of Commerce, so that their analytical opinions show legal validity, with the object of whatever establish the Decree 3632/1974 of 20 of December (BOE 22-1-75) on analysis of footwear, their raw materials, qualities of manufacture, etc. _____

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