

COOLMAX

(IN ENGLISH)

INESCOP is a member of:

LABORATORY REPORT

ENAC

National Organization
of Accreditation

EURIS

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 Nº: R-15104901

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I. SAMPLES:

- A piece of a double orange and black tricots with a middle skimmed cape
Reference COOLMAX.
For lining of footwear of professional use. _____

II. SOLICITED TESTS:

- RESISTANCE TO THE TEAR (IN ISO 20344:2011, 6.3)
- PERMEABILITY TO THE STEAM OF WATER (IN ISO 20344:2011, 6.6)
- STEAM OF WATER COEFFICIENT (IN ISO 20344:2011, 6.8)
- RESISTANCE TO THE ABRASION (IN ISO 20344:2011, 6.12)

III. RESULTS:

The following table gathers the obtained results: _____

TEST	DERMODRY		VALUE OF REFERENCE
	A	B	
R. TEAR N	42, 43, 41, 43	31, 46, 41, 39	MIN 15
PERMEAB.STEAM Mg/cm2.h	39.7		MIN 2,0
STEAM COEFF. Mg/cm2	317.6		MIN 20
R. ABRASION Nº Returns Aspect	<u>Dry</u> 51.200 Without	<u>Humid</u> 25.600 breakage	<u>Dry</u> <u>Humid</u> 51.200 25.600 Without breakage

(1) Exigencies according to ISO 20345-2012.

A and B: Perpendicular directions to each others _____

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IV. COMMENTARIES:

It must notice that the rigorous fulfillment of norm ISO 20344 demands that the verifications are made on the materials taken from the shoes, which can give rise to variations in the test results._____

V. ENVIRONMENTAL 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, 15th October 2015

INESCOP

Signed: Carlos M. Marco Valle
Chemical Sciences Grad.

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VI. 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.
- 6.** This institute is not responsible, of the interpretation or illegal use that can become of this document, whose total or partial reproduction, with aims of publicity and without the authorization of INESCOP, is totally prohibited.
- 7.** Before possible discrepancies between reports, it would be come decisive to a verification in the Central Seat of this Institute.
- 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. _____