

DIVISION: CHEMISTRY-PHYSICS LABORATORY: PACKAGING **TEST REPORT** Page 1 of Page 3 N° 044b/LCF/PKG/03 Date: 31/01/03 SAMPLE DESCRIPTION: Synthetic corks denominated: SUPERCAP® CLIENT DETAILS: **SUPERCAP Srl** Via Dell'Industria, 11 61024 MOMBAROCCIO (PU) REFERENCE STANDARD: FDA CONFORMITY Title 21 cfr. § 177.1810 OUTSIDE DISTRIBUTION: INSIDE DISTRIBUTION: **SUPERCAP Srl Copy: Division Head** c.a. :Ing. BANNINI ACCREDITATION BODY:



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Date: 31/01/03

N° 044b/LCF/PKG/03

GENERAL DETAILS:

Date of sample receipt: 10/01/03 Date of test beginning: 13/01/03 Date of test ending: 31/01/03

Testing methods deviation: NO

IDENTIFICATION OF THE ANALYZED SAMPLE:

Your synthetic corks denominated "SUPERCAP"®

DECLARATION:

The testing results contained in this report refer exclusively to the sample tested. This report cannot be partially reproduced without permission of the Laboratory Head.

DETERMINATIONS CARRIED OUT:

Verification of the suitability for the employment in contact with food substances, in conformity with the Code of Federal Regulations FDA Title 21 cfr.§ 177.1810

- 1) Verification of the maximum extractable fraction in distilled water at reflux temperature after 30minutes and in the solution of ethyl alcohol 50% v/v at the temperature of 150°F for 2 hours.
- 2) Assessment of complete solubility in toluene at high temperature
- 3) Determination of glass transition

SAMPLES:

Samples of corks from which to extract those to submit to tests were manufactured by the client.

Samples for each single test, the quantity of which is determined by procedure adopted were selected at random.



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RESULTS:

1) The following schedule reports the migration values obtained in both liquid simulants in conformity with FDA Title 21 cfr.§ 177.1810 expressed in mg/in²

CORKS "SUPERCAP "®			
Liquid of contact	Operative conditions	Determined value	Top value (*)
distilled water	reflux temperature	0,015 mg/in ²	< 0,025 mg/in ²
ethyl alcohol 50% v/v	150°F for 2 hours	0,005 mg/in ²	< 0,001 mg/in ²

- (*) Top values indicated are valid for minimal molecular weight of 29.000
- 2) Further to the testing performed in conformity with **FDA Title 21 cfr.§ 177.1810** the sample of the Cork "SUPERCAP"® results completely soluble in toluene at high temperature.
- 3) Further to the testing performed in conformity with **FDA Title 21 cfr.§ 177.1810** the registered glass transition values are : -42°C and 140°C

RESP. DIV. CHIMICA-FISICA	RESP. CENTRO
Laboratory Head	Managing Director
Dr.Gianluigi VESTRUCCI	Ing. Pasqualino CAU

This test report is a translation from the Italian Language, and refers to Test Report N° 044b/LCF/PKG/03 delivered by CSI Laboratory.