



INNOVHUB  
STAZIONI SPERIMENTALI  
PER L'INDUSTRIA

innovazione e ricerca



STAZIONE SPERIMENTALE  
CARTA, CARTONI, E PASTE PER CARTA  
SEDE OPERATIVA:  
Via Giuseppe Colombo, 83  
20133 Milano  
Tel +39 02 8515.3610  
sales.innovhub@mi.camcom.it  
www.innovhub-ssi.it



LAB N° 0082 L

Customer:

**MEL MACEDONIAN PAPER MILLS**

K. Gefyra - Ag. Athanasios

57011 Thessaloniki -

## Test report N°: S-SSCCP-2200447

Issue date: 15/03/2022

Sample declared by the customer: paper

Your reference: Acceptance of our offer R-SSCCP-220120

Received date: 01/03/2022 Acceptance date: 01/03/2022

Start date of the tests: 01/03/2022 End date of the tests: 15/03/2022

Sampling: provided by the customer

### Information provided by the customer:

Label: TRIPLEX RKR

Test	Result	U	m.u.
<b>Analitical tests for conformity to DM 21/03/73</b>			
<b>MOISTURE AND VOLATILE MATTER CONTENT</b>	5.58	±0.15	%
<i>DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 1</i>			
<b>ASHES</b>			
<i>DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 2</i>			
Ashes	21.79	±0.17	%
Limit of dry foodstuff ≤ 25 %			
Limit of moist foodstuff ≤ 10 %			
<b>LEAD MIGRATION</b>			
<i>DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 5.3</i>			
<i>+ DM 18/06/1979 GU 180 03/07/1979</i>			
Lead migration	0.88	±0.20	µg/dm <sup>2</sup>
Limit <3 µg/dm <sup>2</sup>			

*N.B. analysis performed on the "back" layer of the sample, contact layer*

### DETERMINATION OF POLICHLORINATED BIPHENYLS (P.C.B.)

*DM 18/06/79 DM 30/05/01 n°267 \**

*Analysis executed by Innovhub Oils and Fats Area*

PCB	< 2	ppm
Limit ≤ 2 ppm		

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Test	Result	U	m.u.
<i>Valutato per confronto con soluzioni di Aroclor 1221, 1254 e 1260 alla concentrazione di 2 ppm.</i>			
<b>FIBRE ANALYSIS OF PAPER AND PAPERBOARD. QUALITATIVE TEST</b>			
<i>Tappi T 401-om 15 *</i>			
Bleached softwood and hardwood chemical pulp			
Unbleached softwood and hardwood sulphate chemical pulp			
Softwood and hardwood mechanical pulp			
<b>QUALITATIVE TESTS FOR STARCH, NITROGEN SUBSTANCES, FORMALDHEYDE, ROSIN, WAXES AND PARAFFINS.</b>			
<i>MI 01 Rev.1 2004 *</i>			
Starch	present		
Nitrogenous substances	present		
<b>Substances soluble and partially soluble in water</b>	0.99	±0.19	%
<i>DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 3a</i>			
<b>Substances soluble in organic solvent (ethanol/toluene)</b>	1.1	±0.35	%
<i>DM 21/03/1973 GU n° 104 20/04/1973 All IV sez 6 Met 3c</i>			
<b>Total starch</b>	3.85		%
<i>DM 21/03/73 GU n.104 20/04/73 *</i>			
<b>Soluble starch (partially)</b>	0.47		%
<i>DM 21/03/73 GU n.104 20/04/73 *</i>			
<b>NITROGEN SUBSTANCES INSOLUBLE IN WATER AND SOLVENT</b>			
<i>DM 21/03/73 *</i>			
Insoluble nitrogen substances	0.66		%
Limit ≤5%			
<b>ROSIN AND TOTAL DERIVATIVES</b>	0.75		%
<i>DM 21/03/73 *</i>			
<b>ROSIN PARTIALLY SOLUBLE IN SOLVENT</b>	0.4		%
<i>DM 21/03/73 GU n.104 20/04/73 *</i>			

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Test	Result	U	m.u.
<b>TOTAL SOLUBLE OR PARTIALLY SOLUBLE AUXILIARY SUBSTANCE</b>			
<i>(by calculation) *</i>			
Total soluble or partially soluble auxiliary substance	5.82		%
Limit $\leq 10\%$			
<b>TOTAL AUXILIARY SUBSTANCES</b>			
<i>(by calculation) *</i>			
Total auxiliary substances	6.48		%
Limit $\leq 15\%$			
<b>QUANTITATIVE SPECIFIC MIGRATION OF FORMALDEHYDE</b>	<0,05		mg/dm <sup>2</sup>
<i>DM 21/03/73 *</i>			
<b>FIBROUS MATERIAL</b>			
<i>(by calculation) *</i>			
Fibrous material	71.73		%
Limit of dry foodstuff $\geq 60\%$			
Limit of moist foodstuff $\geq 75\%$			
<b>SENSORY ANALYSIS. OFF-FLAVOUR (TAINT)</b>			
<i>UNI EN 1230-2:2009 *</i>			
N° assessors	10		
Correct answers	4		
Off-flavour intensity	0.5		
Perceptible difference	NO		
Significance level	5		%

minimum number of answers necessary to conclude that there is a perceptible difference between the test portion for analysis and the test portion of control at different levels of significance: 7

#### CONDIZIONI DI PROVA/TEST CONDITIONS:

- *Test triangolare esteso/Extended triangle test*
- *Sostanza di prova utilizzata/Tested food product: cioccolato al latte/milk chocolate*
- *Umidità relativa nel recipiente di condizionamento/Relative humidity in the vessel: 75%*
- *Tempo di condizionamento/Storage 48 h*
- *Temperatura di condizionamento al buio/Storage temperature in the dark 23±2°C*

#### SCALA DI INTENSITA' DEL RETROGUSTO/TAINT INTENSITY SCALE:

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Test	Result	U	m.u.
0 = no perceptible off-flavour			
1 = just perceptible off-flavour (difficult to define)			
2 = weak off-flavour			
3 = clear off-flavour			
4 = strong off-flavour			

(\*) Test not accredited by ACCREDIA.

U = expanded uncertainty associated with a test result based on a coverage factor  $k=2$  and a level of confidence of 95%.

## ATTESTATION OF CONFORMITY

The sample subjected to analysis, limited to the parameters analyzed, meets the requirements envisaged for materials and objects in paper and cardboard intended for contact with food for which no migration tests are envisaged (dry food) in accordance with the provisions of Article 27 bis of Ministerial Decree 21.3.73 and subsequent amendments.

Laboratory Manager  
Serena Bariselli

Head of Area  
Patrizia Sadocco

THE DOCUMENT IS DIGITALLY SIGNED IN ACCORDANCE WITH CURRENT LEGISLATION AND IT REPLACES THE PAPER DOCUMENT AND THE HANDWRITTEN SIGNATURE.

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