

COD.406 CARTA FORNO MT50 PZ. 4 E.

SCHEDA COMPOSIZIONE PEDANA TIPO EPAL

CARTA DA FORNO IMB SING
CM. 330 X 50 mt. in rotolo

1

PALLET :

DIMENSIONI : 1,20X0,80

PESO : KG. 18,0

IMBALLO :

PESO CAD. ROTOLO : KG. 0,830

PESO CAD. CARTONE : KG. 8,00

DIMENSIONI CARTONE : 0,30X0,30X0,38

thinbake 41 g/m²

Product Specification

Product code: TK774
Product description: thinbake is a bleached high density paper, coated on both sides with silicone.
Application: thinbake offers excellent release properties for baking, cooking and frying.

	Unit	Method	Target	Tolerance
Basis weight	g/m ²	ISO 536	41	+/- 2
Moisture content	%	ISO 289	5.0	+/- 1.0
Tensile strength MD	kN/m	ISO 1924	3.2	
Tear strength MD	mN	ISO 1974	210	
Tear strength after heating MD (200°C, 20min)	mN	ISO 1974	120	
Cobb 60 TS	g/m ²	ISO 535	10 - 12	

The tolerance = 95% of average values fall between the tolerance.

* = based on measured values at the specific paper mill

Date: June 16th 2009

Approved by: K.Haapaniemi
Technical Customer Service Manager
delfortgroup

Tervakoski Oy / FI-12400 Tervakoski

DICHIARAZIONE DI ALIMENTARIETA' DELLA NOSTRA CARTA DA FORNO

Prodotto: Thinbake

Con la presente si dichiara che suddetto prodotto è realizzato in conformità con le seguenti normative dell'Unione Europea:

- **Regolamento (CE) n 1935/2004** del Parlamento Europeo e del Consiglio, 27 ottobre 2004 riguardante I materiali e gli oggetti destinati a venire a contatto con i prodotti alimentari.
- **Direttiva Europea (CE) n 2023/2006** del 22 dicembre 2006 e successive modifiche riguardante i materiali e gli oggetti destinati a venire a contatto con i prodotti alimentari.

E con le seguenti Normative italiane

- **DPR 777/82** esclusa la parte riguardante le materie plastiche
- **Decreto Ministeriale 21/03/1973** Come certificate dal test ISEGA del febbraio 2011 a dai testi fatti da da CSI/Italia in Gennaio 2012 .

È conforme inoltre a:

- BfR 36,2 del 1 Giugno 2009
- FDA 21 CFR Ch (edizione 1 Aprile 2010) paragrafi 176,170 e 176,180
- Test di migrazione EN14338 come stabilito dalla Direttiva Europea 82/711/EEC

La carta è prodotta con fibre vergini al 100%, può essere usata in sicurezza come carta da forno in forni convenzionali fino ad una temperatura di 220 C°. Può stare a contatto diretto con cibi secchi, umidi e grassi.

Il prodotto contiene tracce delle seguenti sostanze

- acido solforico, sale di alluminio (3:2) E 520

il prodotto non appartiene alla categoria delle materie plastiche, pertanto le norme riguardanti le materie plastiche non sono valide per questo prodotto.

La dichiarazione di conformità ha una validità di due anni. Consiste in 1 pagina.

Tervakoski 17.2.2012

Tervakoski Oy
Environment- and R&D


Lisen Henriks-Lehikoinen
Environment- and R&D Manager

DR. RALPH DERRA

Öffentlich bestellter und vereidigter
Sachverständiger für Verpackungs-
materialien, Boden- und Luftanalysen

Akkreditiert gemäß
DIN EN ISO / IEC 17025
DIN EN 45011

DACH
DAC-PL-0035-97-20
DAC-ZE-002-08

**ISEGA – Forschungs-
und Untersuchungs-
Gesellschaft mbH
Aschaffenburg**



63704 Aschaffenburg, Postfach 100565
63741 Aschaffenburg, Zeppelinstr. 3-5
Germany
Telefon +49 (0) 60 21 / 49 89-0
Telefax +49 (0) 60 21 / 49 89-30
Email info@isega.de
<http://www.isega.de>

28 February 2011
Dr. Dr/hs-hoe

4

**UNBEDENKLICHKEITSERKLÄRUNG
CERTIFICATE OF COMPLIANCE
CERTIFICAT DE CONFORMITE**

eingetragen
registered no.
registré

31174 U 11

für Firma
for Messrs
pour MM

Tervakoski Oy
Vähikkäläntie 1
12400 Tervakoski
Finland

Produkt
Product
Produit

thinbake

The product manufactured by the company mentioned above is a paper grade which is used as a baking paper.

It was examined by us according to the

"Methoden zur Untersuchung von Papieren, Kartons und Pappen für Lebensmittelverpackungen", Stand 2000, entsprechend der Vorschrift Nr. 80.56 in der Amtlichen Sammlung von Untersuchungsverfahren nach § 64 des Lebensmittel- und Futtermittelgesetzbuchs - LFGB,

("Methods for testing papers and boards for food packaging", state of 2000, corresponding to the method no. 80.56 within the Official Collection of Test Methods according to § 64 of the Foodstuffs and Animal Feed Code - LFGB),

- 2 -

Geschäftsführer: Dr. Ralph Derra · Handelsregister: Aschaffenburg HRB 3329

Die Veröffentlichung von Ergebnissen unserer Arbeiten und Gutachten sowie die Verwendung für Werbezwecke bedürfen – auch auszugsweise – unserer schriftlichen Genehmigung.
Erfüllungsort und Gerichtsstand Aschaffenburg

and according to the demands of the

Code of Federal Regulations, Food and Drugs (FDA), 21 CFR Ch. I (1 April 2010 edition), § 176.170,

for the used raw materials, fabrication additives and special paper finishing agents as well as for the release of substances which might endanger health.

The baking paper grade is in compliance with the rules of the

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC, Official Journal of the European Union L 338/4 of 13.11.2004, modified by app. no. 5.17 of the regulation (EC) No 596/2009 of 18 June 2009, Official Journal of the European Union L 188 of 18 July 2009, article 3,

as well as of the

Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch (Lebensmittel- und Futtermittelgesetzbuch - LFGB) in der Fassung der Bekanntmachung vom 24. Juli 2009 (BGBl. I S. 2205), zuletzt geändert durch Artikel 5 des Gesetzes vom 09. Dezember 2010 (BGBl. I S. 1934), §§ 30 und 31,

(Foodstuffs, Consumer Goods and Animal Feed Code (Foodstuffs and Animal Feed Code - LFGB) in the version of the notification of 24 Juli 2009 (BGBl. I p. 2205), last amendment by article 5 of the law of 9 December 2010 (BGBl. I p. 1934), §§ 30 and 31),

and is approved according to the

Deutsche Empfehlung XXXVI zur gesundheitlichen Beurteilung von Materialien und Gegenständen für den Lebensmittelkontakt im Rahmen des Lebensmittel- und Futtermittelgesetzbuches, 34. Mitteilung, Bundesgesundheitsblatt 10, 14 (1967), einschließlich 211. Mitteilung, Bundesgesundheitsblatt 52, 1114 (2009), Stand vom 1.6.2009,

(German Recommendation XXXVI for the health-related evaluation of materials and objects for the contact with foodstuffs in the frame of the Foodstuffs and Animal Feed Code, 34th memorandum, Bundesgesundheitsblatt 10, 14 (1967), including the 211th memorandum, Bundesgesundheitsblatt 52, 1114 (2009), state of 1 June 2009).

as well as to the

Deutsche Empfehlung XXXVI/2 zur gesundheitlichen Beurteilung von Materialien und Gegenständen für den Lebensmittelkontakt im Rahmen des Lebensmittel- und Futtermittelgesetzbuches, 181. Mitteilung, Bundesgesundheitsblatt 32, 80 (1989), einschließlich 211. Mitteilung, Bundesgesundheitsblatt 52, 1114 (2009), Stand vom 1.6.2009,

(German Recommendation XXXVI/2 for the health-related evaluation of materials and objects for the contact with foodstuffs in the frame of the Foodstuffs and Animal Feed Code, 181st memorandum, Bundesgesundheitsblatt 32, 80 (1989), including the 211th memorandum, Bundesgesundheitsblatt 52, 1114 (2009), state of 1 June 2009).

Furthermore the paper grade thinbake is in compliance with the rules of the

Code of Federal Regulations, Food and Drugs (FDA), 21 CFR Ch. I (1 April 2010 edition), §§ 176.170 and 176.180.

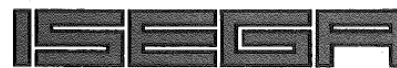
Thus the paper grade thinbake according to the sample material submitted may be used safely as a baking paper in conventional ovens at temperatures up to 220 °C. It may stand in direct contact with dry, moist and fatty foodstuffs.

This certificate of compliance has a validity of 2 years. It consists of 4 pages.

Staatlich anerkannter Sachverständiger
zur Untersuchung der Probenproben von
Verpackungsmitteln aus Papier, Papp
Kunststoffen, Glas, Metall und
sonstigen Materialien auf ihre
Lebensmittelkontaktfähigkeit

(Burkardt)
Officially certified
and authorized food
chemist





63704 Aschaffenburg, Postfach 100565
63741 Aschaffenburg, Zeppelinstr. 3-5
Germany
Telefon +49 (0) 60 21 / 49 89-0
Telefax +49 (0) 60 21 / 49 89-30
Email info@isega.de
<http://www.isega.de>

Aschaffenburg, 28 February 2011

From: Hill
hoe

7

REPORT

Order No.: 2732/18 Page 1 of 7 pages

Client: Tervakoski Oy
Vähikkäläntie 1
12400 Tervakoski / Finland

Date of order: 20 December 2010

Receipt of sample material: 22 December 2010

Origin of sample material: From the client

Purpose: Analysis of a paper grade for its compliance with the demands on food contact materials


(Dr. Derra)


(Hill)
Officially certified
food chemist

The present report refers exclusively to the samples as laid out therein. Information and statistical data on the results can be obtained on request.

Non-accredited determinations have not been validated at the date of the accreditation. Individual determinations were not intended for accreditation owing to their restricted field of application. In these cases, the necessary accuracy for the evaluation is ensured by the internal quality management system.

Geschäftsführer: Dr. Ralph Derra · Handelsregister: Aschaffenburg HRB 3329

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Erfüllungsort und Gerichtsstand Aschaffenburg

Sample Material

For analysis the following sample material was in hand:

thinbake 41g/m²

Carrying out of the Tests

Examination period: 18 January 2011 to 16 February 2011

8

1. Determination of the Grammage *

The determination was performed by analogy with DIN EN ISO 536 after conditioning of the sample at 23 °C / 50 % atmospheric humidity which is prescribed as norm climate.

Result: 41.3 g/m² $\triangle$ 38.4 g dry matter/m²

2. Determination of the Moisture Content *

The determination was performed according to DIN EN ISO 638 directly after unpacking the sample.

Result: 5.4 %

3. Preparation of Extracts *

The extracts were prepared according to the "Methods for the examination of consumer goods" following the method B 80.56 of the Official Collection of Analytical Methods according to § 64 LFGB and according to the demands of the standards EN 645, EN 647 and EN 15519.

Water: 2 hours at 80 °C

Isooctane: 2 hours at 60 °C

4. Determination of the Dry Matter in the Water Extract *

The dry matter was determined according to DIN EN 920 after drying at 105 °C.

Result: 1.5 mg/dm² $\triangle$ 4.0 mg/g dry matter

5. Determination of Methanal (Formaldehyde) in the Water Extract *

The determination was performed photometrically according to the acetylacetone method in conformity with DIN EN 1541. The requirements of the method B 82.02-1 indicated in the Official Collection of Analytical Methods according to § 64 of the LFGB for consumer goods were observed.

Result: not determinable < 0.004 mg/g dry matter

9

6. Specific Determination of Primary Aromatic Amines in the Water Extract

The determination was performed by means of HPLC and MS detection.

Result in mg/kg water extract:

Aniline	not detected	< 0.002
4-Aminodiphenyl	not detected	< 0.002
Benzidine	not detected	< 0.002
4-Chloro-o-toluidine	not detected	< 0.002
2-Naphthylamine	not detected	< 0.002
o-Aminoazotoluene	not detected	< 0.002
2-Amino-4-nitrotoluene	not detected	< 0.002
4-Chloroaniline	not detected	< 0.002
2,4-Diaminoanisole	not detected	< 0.002
4,4'-Diaminodiphenylmethane	not detected	< 0.002
3,3'-Dichlorobenzidine	not detected	< 0.002
3,3'-Dimethoxybenzidine	not detected	< 0.002
3,3'-Dimethylbenzidine	not detected	< 0.002
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	not detected	< 0.002
p-Cresidine	not detected	< 0.002
4,4'-Methylene-bis(2-chloroaniline)	not detected	< 0.002
4,4'-Oxydianiline	not detected	< 0.002
4,4'-Thiodianiline	not detected	< 0.002
o-Toluidine	not detected	< 0.002
2,4-Toluylenediamine	not detected	< 0.002
2,4,5-Trimethylaniline	not detected	< 0.002
o-Anisidine	not detected	< 0.002
4-Aminoazobenzene	not detected	< 0.002

7. Determination of Pentachlorophenol (PCP) *

The analysis was made according to DIN EN ISO 15320 by means of gas chromatography in the water extract after concentration at a column and esterification. The detection was performed by means of ECD.

Result: not determinable < 0.005 mg/kg dry matter

8. Determination of the Heavy Metals Contents in the Water Extract *

The determination was performed according to DIN EN 12497 and DIN EN 12498.

Result in mg/kg dry matter:

Cadmium	(Cd):	not determinable	< 0.05
Mercury	(Hg):	not determinable	< 0.025
Lead	(Pb):	not determinable	< 0.5
Chromium	(Cr):	not determinable	< 0.1

10

9. Determination of the Dry Matter in the Organic Solvent Extract *

The dry matter was determined according to DIN EN 1186 after drying at 105 °C.

Result: 0.7 mg/dm² $\triangle$ 1.8 mg/g dry matter

10. IR-Spectroscopic Testing of the Dry Matters from the Water and the Organic Solvent Extract *

The dry matters were ground up with KBr and examined by IR-spectroscopy.

Result: Substances which might endanger health as well as deviations from the composition stated, which are detectable by this method, were not found.

11. Determination of Polychlorinated Biphenyls (PCB) *

The determination was performed according to DIN EN ISO 15318 by means of gas chromatography. The demands of the method B 80.56-1 within the Official Collection of Analytical Methods according to § 64 LFGB for consumer goods are considered. The numbers refer to the Ball-schmitter nomenclature.

Result in mg/kg dry matter:

18	2,2',5-Trichlorobiphenyl	not determinable	< 0.01
28	2,4,4'-Trichlorobiphenyl	not determinable	< 0.01
52	2,2',5,5'-Tetrachlorobiphenyl	not determinable	< 0.01
101	2,2',4,5,5'-Pentachlorobiphenyl	not determinable	< 0.01
138	2,2',3,4,4',5'-Hexachlorobiphenyl	not determinable	< 0.01
153	2,2',4,4',5,5'-Hexachlorobiphenyl	not determinable	< 0.01
180	2,2',3,4,4',5,5'-Heptachlorobiphenyl	not determinable	< 0.01

12. Determination of the Transfer of Antimicrobial Constituents *

The determination was made according to DIN EN 1104. Test specimen of a diameter of 10 mm were placed onto an inoculated nutrient medium and then incubated. The inhibition zone is indicated as total diameter (including the test specimen).

Result:

with *Aspergillus niger*: no inhibition zone
with *Bacillus subtilis*: no inhibition zone

i.e.: a transfer of antimicrobial constituents was not detected.

13. Test for Fluorescent Substances *

The test was made by UV irradiation.

Result: The sample did not contain optically brightened fibres.

14. Determination of the Migration into Tenax (Modified Polyphenylene Oxide) *

The migration was performed according to DIN EN 14338.

Conditions: 30 minutes at 220 °C

Testing procedure: one-sided contact

The volatile components adsorbed onto tenax were extracted with diethyl ether and summarized by means of gas chromatography and mass spectrometric detection against deuterated nonadecane (C₁₉) as an internal standard. Besides, a specific analysis for solvents from carbonless copy papers, for phthalates as well as for benzophenone and 4-methyl benzophenone was performed.

Result:

Sum of the volatile components	not determinable	< 0.1	mg/dm ²
Diisopropylnaphthalene (DIPN)	not determinable	< 0.05	mg/dm ²
Other solvents	not determinable	< 0.05	mg/dm ²
Diisobutyl phthalate	not determinable	< 0.02	mg/dm ²
Dibutyl phthalate	not determinable	< 0.02	mg/dm ²
Di(2-ethylhexyl) phthalate	not determinable	< 0.05	mg/dm ²
Benzylbutyl phthalate	not determinable	< 0.05	mg/dm ²
Benzophenone	not determinable	< 0.02	mg/dm ²
4-Methyl benzophenone	not determinable	< 0.02	mg/dm ²

15. Determination of Degradable Compounds containing Nitrogen *

After degradation at 220 °C in an appropriate apparatus, the nitrogen content was determined after Kjeldahl disintegration by photometry according to DIN 38 406 - E5 - 1.

Result: not determinable < 0.025 mg/g dry matter

16. Determination of the Fluorine Content *

The determination was performed after combustion in an argon/oxygen flow by means of an ion selective electrode.

Result: not determinable < 0.1 mg/g dry matter

17. Sensory Analysis for Odour at 220 °C *

The examination was made on the basis of DIN 10 955.

The sample was stored in a sealed glass vessel at 220 °C for 30 min. Then the odour of the sample was evaluated by a group of selected assessors.

Result:

No formation of odour indicating a decomposition of the product could be noticed.

18. Determination of the Heavy Metals Contents *

The determination was performed after microwave disintegration by AAS/hydride technique or ICP-AES, respectively.

Result:

Arsenic	(As):	not determinable	< 2	mg/kg dry matter
Cadmium	(Cd):	not determinable	< 0.5	mg/kg dry matter
Chromium	(Cr):	not determinable	< 1	mg/kg dry matter
Mercury	(Hg):	not determinable	< 0.25	mg/kg dry matter
Lead	(Pb):	not determinable	< 5	mg/kg dry matter

19. Extraction Tests According to the FDA Regulations *

13

The tests were performed according to FDA 21 CFR Ch. I, § 176.170 in triplicate.

a) Extraction with Water

The extraction was made for 2 hours at 121 °C.

Result: 0.095 mg/sq inch

Chloroform soluble portion: The determination is not necessary as test results are already in conformity with the limit value.

b) Extraction with n-Heptane

The extraction was made for 30 min at 21 °C.

Result: 0.122 mg/sq inch

Chloroform soluble portion: The determination is not necessary as test results are already in conformity with the limit value.

The accreditation applies to the methods marked with * in the test report (Register no. DAC-PL-0035-97-20).

End of report