



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.
třída Tomáše Bati 299, 764 21 Zlín – Czech Republic

Testing laboratory

ATTEST

No. 472106000

On sample:

1. Articles made of natural materials

osier, corn meal, „pedig“ (inner part of the rattan stem), „Elhar“ (sea grass), bast of fir baskets, hand baskets, trays, bowls without surface treatment

2. Lacquered surface treatment of board of wicker tray with handles

Client:

MOREX, spol. s r. o. – Nádražní 481, Morkovice – Slížany, Czech Republic
ID: 48533157

Values obtained and the assessment of the technical parameters

The evaluated parameters mentioned on the pages 2 – 5 of the Attest **meet** hygienic requirements for the **products made of natural materials** (without surface modification) and for the **products with a varnish surface treatment** intended to come into contact with dry foodstuff types given by the article 3 the paragraphs 1 and 3 and article 20 the paragraphs 3 and 4 of **Czech Health Ministry Decree No. 38/2001 Coll.**, relating to hygienic requirements for the articles intended to come into contact with foodstuffs, as amended.

Evaluated parameters of the samples **meet requirements** of the **European parliament and Council regulation No. 1935/2004 article 3** – general requirements for materials and articles intended into the contact with foodstuffs.

Issued on: December 7, 2012
Valid till: December 31, 2015



Ing. Jiří Samsonek, Ph.D.
Head of the testing laboratory

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Page 1 (pages 8)



ATTEST No. 472106000

Articles made of natural materials

osier, corn meal, „pedig“, „Elhar“ (sea grass), bast of fir
without surface treatment

Evaluation of the wooden article surfaces

The articles were made of natural materials without surface treatment. The surface was without defects, bark particles and resin outflow. No pests and fibered fungal attacks. The products surface was smooth and non-cracked.

Assessment of organoleptic properties

Biscuits, (23±2)°C, 48 h

Sample		osier		bast of fir	
Assessor No.	Unit	Odour	Flavour	Odour	Flavour
1	level	0	0	0	0
2	level	0	0	0	0
3	level	0	0	0	0
4	level	0	0	0	0
5	level	0	0	0	0
Mean	level	0	0	0	0

Sample		corn meal		„pedig“	
Assessor No.	Unit	Odour	Flavour	Odour	Flavour
1	level	0	0	0	0
2	level	0	0	0	0
3	level	0	0	0	0
4	level	0	0	0	0
5	level	0	0	0	0
Mean	level	0	0	0	0

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ATTEST No. 472106000

Articles made of natural materials

osier, corn meal, „pedig“, „Elhar“ (sea grass), bast of fir
without surface treatment

Sample		„Elhar“ (sea grass)	
Assessor No.	Unit	Odour	Flavour
1	level	0	0
2	level	0	0
3	level	0	0
4	level	0	0
5	level	0	0
Mean	level	0	0

Notes to the tables:

Off-odour and off-taste scale:

0 = No perceptible off-odour or off-taste

1 = Just perceptible off-odour or off-taste (off-odour and off-taste determination is very difficult)

2 = Moderate off-odour or off-taste

3 = Strong off-odour or off-taste

4 = Very strong off-odour or off-taste

According to Decree of Health Ministry No. 38/2001 Coll., as amended, the articles shall not unacceptably change organoleptic characteristics of food

Toxic element determination

Parameter	Unit	Test result ¹⁾		Limit
		osier	bast of fir	
Pb	mg/kg	< 5	< 5	Not detected
Cd	mg/kg	< 5	< 5	Not detected
Hg	mg/kg	< 5	< 5	Not detected
Cr	mg/kg	< 10	< 10	Not detected
Sb	mg/kg	< 15	< 15	Not detected
Ba	mg/kg	< 100	< 100	Not detected
As	mg/kg	< 5	< 5	Not detected
Se	mg/kg	< 5	< 5	Not detected

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ATEST

No. 472106000

Articles made of natural materials

osier, corn meal, „pedig“, „Elhar“ (sea grass), bast of fir
without surface treatment

Parameter	Unit	Test result ¹⁾		Limit
		corn meal	„pedig“	
Pb	mg/kg	< 5	< 5	Not detected
Cd	mg/kg	< 5	< 5	Not detected
Hg	mg/kg	< 5	< 5	Not detected
Cr	mg/kg	< 10	< 10	Not detected
Sb	mg/kg	< 15	< 15	Not detected
Ba	mg/kg	< 100	< 100	Not detected
As	mg/kg	< 5	< 5	Not detected
Se	mg/kg	< 5	< 5	Not detected

Parameter	Unit	Test result ¹⁾		Limit
		„Elhar“ (sea grass)		
Pb	mg/kg	< 5		Not detected
Cd	mg/kg	< 5		Not detected
Hg	mg/kg	< 5		Not detected
Cr	mg/kg	< 10		Not detected
Sb	mg/kg	< 15		Not detected
Ba	mg/kg	< 100		Not detected
As	mg/kg	< 5		Not detected
Se	mg/kg	< 5		Not detected

Notes to the tables:

¹⁾ Symbol „<“ means LOD (limit of detection) of the analytical method

²⁾ Limit value according to the decree No. 38/2001 Coll., as amended

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ATEST

No. 472106000

Lacquered surface treatment of board of wicker tray with handles

Identification of lacquered surface treatment by FTIR method: polyester varnish

Assessment of organoleptic properties

Food, contact conditions		Biscuits, (23±2) °C, 48 h	
Assessor No.	Unit	Odour	Flavour
1	level	0	0
2	level	0	0
3	level	0	0
4	level	0	0
5	level	0	0
Mean	level	0	0

Notes to the tables:

Off-odour and off-taste scale:

0 = No perceptible off-odour or off-taste

1 = Just perceptible off-odour or off-taste (off-odour and off-taste determination is very difficult)

2 = Moderate off-odour or off-taste

3 = Strong off-odour or off-taste

4 = Very strong off-odour or off-taste

According to Decree of Health Ministry No. 38/2001 Coll., as amended, the articles shall not unacceptably change organoleptic characteristics of food

Test results of overall migration

Food simulant, migration conditions	Unit	Value obtained		Uncertainty ¹⁾	Limit ²⁾
		Single results	Average		
MPPO ³⁾ , (40±2) °C, 10 days	mg/ dm ²	0,5; 0,7; 0,7	0,6	3	max. 10

Notes to the table:

¹⁾ uncertainty type B according to the ČSN EN 1186-1, article 12.3.

²⁾ Limit values according to the Decree of Health Ministry No. 38/2001 Coll., as amended and according to the Commission Regulation (EU) No 10/2011

³⁾ modified polyphenyleneoxide

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Sample description:

The client supplied for the testing articles made of natural materials without surface treatment – table baskets, baskets, bowls and trays. The products were already tested – see the Test report of accredited laboratory No. 472103703 from December 14, 2009 and 472101814 from December 14, 2006.

Following samples were delivered for the testing:

6000/1 – osier

6000/2 – fir bast

6000/3 – corn meal

6000/4 – „pedig“ (inner part of the rattan stem)

6000/5 – „Elhar“ (see grass)

6000/6 – board of wicker tray with handles – lacquered surface treatment

The client supplied together with the samples also list of articles with their identification numbers (see annex).



Oval bowl (osier)



**Decorative bowl
(bast of fir, „Elhar“, osier)**



Oval basket („pedig“)



Basket (corn meal)



Bowl (osier, „Elhar“)



Wicker tray with handles

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třída Tomáše Bati 299, 764 21 Zlín, Czech Republic
Testing Laboratory

Attest No. 472106000

Sampling method used:

The samples were supplied by the client. The laboratory is not responsible for the errors caused by the wrong sampling.

Work requested:

Evaluation of hygienic properties of the sample according to the Decree of Health Ministry No. 38/2001 Coll. *for articles intended into a contact with foodstuffs*, as amended, in compliance with the Law of Czech Republic No. 258/2000 Coll. *about protection of the public health*, as amended.

The evaluation of hygienic properties of the sample is based on European legislation in the sense of Regulation (EC) No. 1935/2004 of the European Parliament and of the Council *on materials and articles intended to come into contact with food*.

The following tests were performed:

1. Evaluation of the wooden products surface according to ITC's internal regulation No. A-03-36
2. Determination of heavy metals by XRF method according to ITC's internal regulation No. A-98-09
3. Identification of surface treatment by FTIR method according to ITC's internal regulation No. A-96-37
4. Overall migration into food simulant E (modified polyphenyleneoxide – MPPO) according to the ČSN EN 1186-1,13 (method B)
5. Evaluation of organoleptic properties according to ITC's internal regulation No. A-04-43

Test conditions:

- ad 4 Simulant E - modified polyphenyleneoxide (MPPO)
Contact temperature and contact time: $(40 \pm 2)^\circ\text{C}$ / 10 days
Migration ratio: 4 g of the simulant/100 cm² of the sample
- ad 5 Food: biscuits
Contact temperature and contact time: $(23 \pm 2)^\circ\text{C}$, 48 h
Number of assessors: 5
Sensory test: paired multi-comparison test

Testing facility:

All tests were performed in Institut pro testování a certifikaci, a.s. Zlín.

Test results:

Test results are mentioned in the Test report of accredited laboratory No. 472106000 and on the pages 2 – 5 of this document.

Opinions and interpretations:

The evaluated products made of natural materials without surface treatment –osier, bast of fir, „pedig“ (inner part of the rattan stem), corn meal and „Elhar“ (sea grass) and lacquered board of wicker tray with handles are intended to come into a direct contact with dry foodstuff types.

The requirements for products intended to come into direct contact with foodstuffs are given by Decree of the Health Ministry No. 38/2001 Coll., as amended (hereinafter referred to as Decree 38/2001) and by European Parliament and Council Regulation No. 1935/2004 (hereinafter referred to as Regulation 1935).

General requirements - Decree 38/2001 and Regulation 1935

The products intended to come into contact with foodstuffs shall be manufactured so that, under normal or foreseeable conditions of use, they do not transfer their constituents to food in quantities

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Attest No. 472106000

which could endanger human health or bring about an unacceptable change in the composition of the food or bring about a deterioration in the organoleptic characteristics thereof. The performed tests verified that the evaluated samples do not influence the organoleptic properties of the food (see the tables on the pages 2, 3 and 5 of this attest). Further the absence of the toxic elements was verified – see the tables on the pages 3 – 4.

Requirements on the products of natural materials - Decree 38/2001

According to the article 3 paragraph 3 the products intended into direct contact with foodstuffs could be made from natural materials, like cork, the wood from non-poisonous wood plants, without defects, bark particles, resin outflow and smooth and non-cracked surface. Pests and fibered fungi must not attack these materials. The evaluated articles made of osier, bast of fir, „pedig“, corn meal and „Elhar“ (sea grass) meet all the above mentioned requirements.

Requirements for the products with a varnish surface treatment – decree 38

According to § 20 (3) the varnish surface treatment shall be made of substances listed in Annex No. 11 to decree 38. The lacquered surface treatment of the board of the wicker tray with handles were identified by FTIR method as polyester varnish that is the substance mentioned in the list.

According to § 20 (4) of decree 38 the non-metal and non-silicate surface treatments of the products that are intended into contact with foodstuffs should meet hygienic requirements mentioned under the point 7 of the Annex No. 11. These tests do not apply to products intended into contact with dry foodstuff types.

The overall migration into the food simulant E was provided. The test results of this test are mentioned in the table on the page 5 of this attest.

The sample met in all tested parameters for following use conditions:

- **long-term contact with dry foodstuff types at room temperature or below**

Conclusion:

The comparison of obtained results with limits of Decree No. 38/2001 Coll., as amended and of the article 3 of European Parliament and Council Regulation No. 1935/2004 and evaluation of the conformity with these regulations are mentioned on the page 1 of this attest.

Ing. Věra Vilímková
Head of the Laboratory
of analytical chemistry and microbiology



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**MOREX, spol. s r.o.**

Nádražní 481, 768 33 Morkovice

Tel./fax: 00420 - 573 370 115

e-mail: morex@post.cz http://morex.hyperlink.cz

Morkovice dne 17.10.2012

Seznam hodnocených výrobků určených pro styk s potravinami**firmy Morex, spol. s r.o. Morkovice**

číslo výrobku

název výrobku

70220	koš pultový a obměny jeho velikostí a tvarů – stejný materiál
70221	přepravka na pečivo
70224	koš pultový a obměny jeho velikostí a tvarů – stejný materiál
70910	koš oválný
70477	ošatka oválná 1,25 kg
70459	ošatka kulatá 1,00 kg
70460	ošatka kulatá 1,50 kg
70461	ošatka oválná 1,00 kg
70462	ošatka kulatá 0,50 kg
70463	ošatka kulatá 0,75 kg
70464	ošatka oválná 0,50 kg
70465	ošatka oválná 0,75 kg
70466	ošatka oválná 1,50 kg
70468	ošatka kulatá 1,25 kg
70470	ošatka plochá vrch pr.30,5, dno pr. 18 cm, výš.4,5 cm vnitř.
70474	ošatka oválná 2,00 kg
70478	ošatka oválná - veka 33x11 cm
70479	ošatka oválná - veka 57x10 cm
70480	ošatka trojúhelníková 0,60 kg
70481	ošatka trojúhelníková 1,50 kg
70482	ošatka hranatá 25,5x12,5 cm 1 kg
70484	ošatka hranatá vrch 16x16, dno 8x8 cm
70485	ošatka oválná - veka 44x11 cm
70488	ošatka oválná 0,35 kg
70489	ošatka plochá dnopr.14,5, vrch 27, výš.5,5 cm
70490	ošatka hranatá 37,5x14x7 na 1,50 kg
70491	ošatka kulatá 2,75 kg
70492	ošatka trojúhelníková 1,00 kg

MOREX, spol. s r.o.

Nádražní 481

768 33 MORKOVICE-SLÍŽANY

IČO 48533157

DIČ CZ48533157

BANKOVNÍ SPOJENÍ:

ČS a.s. KROMĚŘÍŽ

č. ú.: 1482241329/0800

IČO: 48533157

DIČ: 320-48533157

Registrace: Zápis u KOS v Brně,
oddíl C, vložka 10975

**MOREX, spol. s r.o.**

Nádražní 481, 768 33 Morkovice

Tel./fax: 00420 - 573 370 115

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list č. 2

381037	miska oválná
041010	miska tažená pr.14cm
041011	miska tažená pr. 24
041050	miska tažená ovál 14x18 cm
041056	miska oválná s oušky 30x19 cm
041058/4	miska oválná 30x21 cm
041125	miska tažená oválná 26x20 cm
045100	koš třípatrový prům.48 cm, v-56 cm
0510201	koš pultový proutěný 60x40/30x20 cm a obměny jeho velikostí a tvarů – stejný materiál
0510549	koš na pečivo 72x46 cm a obměny jeho velikostí a tvarů-stejný materiál
06001/1,2,3	podnos oblouk a jeho obměny velikostí a tvarů – stejný materiál
06003/1,2,3	podnos hranatý s ušima a jeho obměny velikostí a tvarů – stejný materiál
06004/1,2,3	podnos ovál zvýšený a jeho obměny velikostí a tvarů
06008/1,2	podnos oválný s podélným obloukem
OET-1328	miska s obloukem
381012/N,M,S,V	zásuvka rovná a její obměny velikostí – stejný materiál
381015	miska kulatá s copem
381016	miska oválná zvýšená
381017/M,S,V	miska oválná s obloučky a její velikosti – stejný materiál
381019	miska hranatá
381037	miska oválná
381064/M,V	miska čalouněná a její velikosti
391079/M	miska oválná s ušima a její velikosti
381172/M,S,V	miska kulatá a její velikosti
381612/N,M,S,V	zásuvka rovná a její velikosti
381234/M,S,V	zásuvka a její velikosti
381271/M,S,V	miska a její velikosti
381280	miska
381281	miska kulatá
70520	stojan na ubrousky
70889	podnos pedigový a obměny jeho tvarů a velikostí – stejný materiál
70970	podnos proutěný a jeho obměny velikostí a tvarů – stejný materiál

Zpracoval: Vlček Emil

V Morkovicích dne: 17.11.2012

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DIČ CZ48533157BANKOVNÍ SPOJENÍ:
ČS a.s. KROMĚŘÍŽ
č. ú.: 1482241329/0800IČO: 48533157
DIČ: 320-48533157Registrace: Zápis u KOS v Brně,
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