



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.

tř. T.Bati 299, 764 21 Zlín – Czech Republic

Testing laboratory

ATTEST

No. 472103703

On sample:

Wicker articles made from natural materials

reed, osier, corn meal, Pedig, Elmar (sea grass)

baskets, hand baskets, trays, bowls without surface treatment

Client:

MOREX, spol. s r. o. – Nádražní 481, Morkovice - Slížany

ID: 48533157

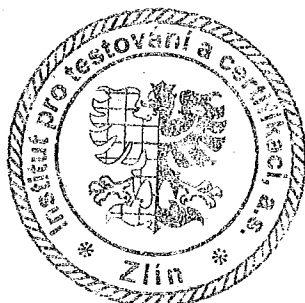
Values obtained and the assessment of the technical parameters

Evaluated parameters of the samples meet requirements of article 3 paragraphs 1 and 5 of the Decree of the Health Ministry No. 38/2001 Coll. as amended for articles made from **natural materials** (wood without surface modification) intended into the contact with foodstuffs.

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 14, 2009

Valid till: December 31, 2012



Doc. Ing. Vladimír Klepal, CSc.
Head of the testing laboratory

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Evaluation of wicker articles made from natural materials
reed, osier, corn meal, Pedig, Elmar (sea grass)
without surface treatment

Evaluation of the wooden articles surface

The wicker articles were made from natural material without surface modification. The surface was without defects, bark particles and resin sprains. No pests and fibered fungal attacks. The products surface was smooth and uncracked.

Corn meal - determination of heavy metals

Parameter	Unit	Value obtained	Limit ¹⁾
Pb	mg/kg	< 2	Not detected
Cd	mg/kg	< 2	Not detected
Cr	mg/kg	< 2	Not detected
Ba	mg/kg	< 10	Not detected
Hg	mg/kg	< 1	Not detected
Se	mg/kg	< 2	Not detected
Sb	mg/kg	< 2	Not detected
As	mg/kg	< 1	Not detected

Osier- determination of heavy metals

Parameter	Unit	Value obtained	Limit ¹⁾
Pb	mg/kg	< 2	Not detected
Cd	mg/kg	< 2	Not detected
Cr	mg/kg	< 2	Not detected
Ba	mg/kg	< 10	Not detected
Hg	mg/kg	< 1	Not detected
Se	mg/kg	< 2	Not detected
Sb	mg/kg	< 2	Not detected
As	mg/kg	< 1	Not detected



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Osier tapes – determination of heavy metals

Parameter	Unit	Value obtained	Limit ¹⁾
Pb	mg/kg	< 2	Not detected
Cd	mg/kg	< 2	Not detected
Cr	mg/kg	< 2	Not detected
Ba	mg/kg	< 10	Not detected
Hg	mg/kg	< 1	Not detected
Se	mg/kg	< 2	Not detected
Sb	mg/kg	< 2	Not detected
As	mg/kg	< 1	Not detected

Reed– determination of heavy metals

Parameter	Unit	Value obtained	Limit ¹⁾
Pb	mg/kg	< 2	Not detected
Cd	mg/kg	< 2	Not detected
Cr	mg/kg	< 2	Not detected
Ba	mg/kg	< 10	Not detected
Hg	mg/kg	< 1	Not detected
Se	mg/kg	< 2	Not detected
Sb	mg/kg	< 2	Not detected
As	mg/kg	< 1	Not detected

Pedig– determination of heavy metals

Parameter	Unit	Value obtained	Limit ¹⁾
Pb	mg/kg	< 2	Not detected
Cd	mg/kg	< 2	Not detected
Cr	mg/kg	< 2	Not detected
Ba	mg/kg	< 10	Not detected
Hg	mg/kg	< 1	Not detected
Se	mg/kg	< 2	Not detected
Sb	mg/kg	< 2	Not detected
As	mg/kg	< 1	Not detected

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

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Elmar (sea grass) – determination of heavy metals

Parameter	Unit	Value obtained	Limit ¹⁾
Pb	mg/kg	< 2	Not detected
Cd	mg/kg	< 2	Not detected
Cr	mg/kg	< 2	Not detected
Ba	mg/kg	< 10	Not detected
Hg	mg/kg	< 1	Not detected
Se	mg/kg	< 2	Not detected
Sb	mg/kg	< 2	Not detected
As	mg/kg	< 1	Not detected

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

Large bakery basket

Parameter	Unit	Value obtained	Limit ¹⁾
Evaluation of organoleptic properties model foodstuff: biscuits, 20°C, 48 hours			
Organoleptic properties - flavour	level ²⁾	0	max. 1,0
Organoleptic properties - odour	level ²⁾	1	max. 1,0

Small decoration bowl

Parameter	Unit	Value obtained	Limit ¹⁾
Evaluation of organoleptic properties model foodstuff: biscuits, 20°C, 48 hours			
Organoleptic properties - flavour	level ²⁾	0	max. 1,0
Organoleptic properties - odour	level ²⁾	0	max. 1,0

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Oval bowl - light

Parameter	Unit	Value obtained	Limit ¹⁾
Evaluation of organoleptic properties model foodstuff: biscuits, 20°C, 48 hours			
Organoleptic properties - flavour	level ²⁾	0	max. 1,0
Organoleptic properties - odour	level ²⁾	0	max. 1,0

Cornered tray with the handles

Parameter	Unit	Value obtained	Limit ¹⁾
Evaluation of organoleptic properties model foodstuff: biscuits, 20°C, 48 hours			
Organoleptic properties - flavour	level ²⁾	0	max. 1,0
Organoleptic properties - odour	level ²⁾	0	max. 1,0

Oval scuttle

Parameter	Unit	Value obtained	Limit ¹⁾
Evaluation of organoleptic properties model foodstuff: biscuits, 20°C, 48 hours			
Organoleptic properties - flavour	level ²⁾	0	max. 1,0
Organoleptic properties - odour	level ²⁾	0	max. 1,0

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

2) Odour and flavour expressed in the scale:

0 – without unacceptable odour or flavour

1 – weak odour or flavour, or small differences between tested samples and revisory samples

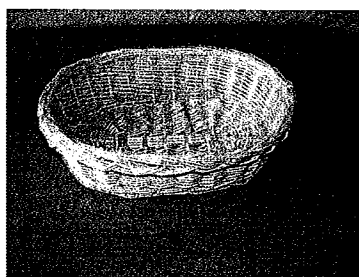
2 – apparent odour or flavour

3 – strong odour or flavour

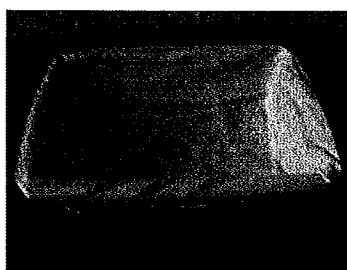


Sample description:

The client supplied for the testing wicker articles made from natural materials. The samples without surface treatment were made from reed, pedig, osier, corn meal and Elmar (sea grass). Together with the samples the client supplied also list of articles with their identification numbers (see sannex).



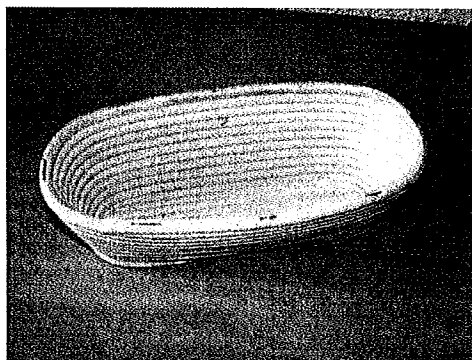
Oval bowl



Cornered bowl



Decoration bowl



Oval scuttle



Cornered tray with the handles

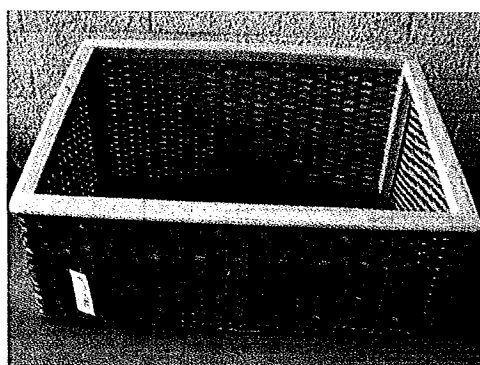


Table basket

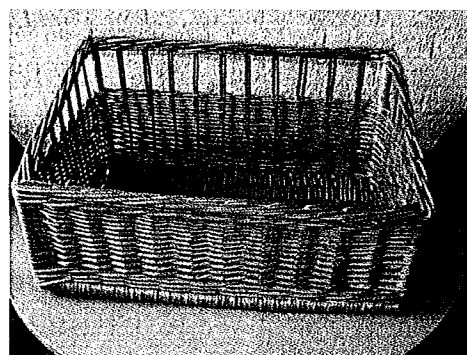


Table basket



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.
tř. T. Bati 299, 764 21 Zlín, Czech Republic
Testing Laboratory

Attest No. 472103703

Request:

Evaluation of hygienic parameters according to the Czech Ministry of Health Decree No. 38/2001 Coll. – “Hygienic requirements for materials intended to come into contact with foodstuffs” as amended, this decree was issued on the basis of the Law No. 258/2000 Coll. on Public Health Protection as amended.

Evaluation of hygienic parameters comes from the European parliament and Council regulation No. 1935/2004 article 3 – general requirements for materials and articles intended into the contact with foodstuffs.

The following tests were performed:

1. Evaluation of the wooden products surface according to the internal regulation ITC No. A-03-36
2. Determination of heavy metals by XRF method according to the internal regulation ITC No. ZP ITC A-98-09
3. Evaluation of organoleptic properties according to the internal regulation ITC No. A-04-43
4. Evaluation of fulfilling of the requirements of the Decree of the Health Ministry No. 38/2001 Coll. as amended for products made from natural materials (wood without surface modification).

Equipment Used:

- ad 1. – 2. Test report of accredited laboratory No 472103703 from December 14, 2009
ad 3. Test report of accredited laboratory No 472101814/1 from December 14, 2006

Test conditions:

- ad 1. – 2. Test report of accredited laboratory No 472103703 from December 14, 2009
ad 3. Test report of accredited laboratory No 472101814/1 from December 14, 2006

Testing facility:

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

Test results:

- ad 1. – 3. See Test report of accredited laboratory No. 472101814/1, 472103703 and pages No.2 -5 of this document



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.
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Testing Laboratory

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ad 4. Evaluation of fulfilling of the requirements of the Decree of the Health Ministry No. 38/2001 Coll., amended by Decree No. 186/2003 Coll. for products made from natural materials (wood without surface modification) intended into direct contact with foodstuffs.

According to the article 3 paragraph 1 all the products must be produced in such a quality so that under common conditions of use these products must not release any substances that can negatively influence the quality of the food, human health or to change sensorial properties of the food. The product does not influence the sensorial properties of the food. **Requirements of the article 3 are met.** (determination of heavy metals and evaluation of organoleptic properties)

According to the article 3 paragraph 5 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 sprains and smooth uncracked surface. Pests and fibered fungi must not attack these materials. **The evaluated articles made from reed, osier, pedig, corn meal and Elmar (sea grass) meets all the above mentioned requirements.**

Tested by:

- ad 1. – 2. See Test report of accredited laboratory No. 472103703 from December 14, 2009
- ad 3. See Test report of accredited laboratory No. 472101814/1 from December 14, 2006
- ad 4. Eva Vašová, on December 14, 2009

Conclusion:

The comparison of obtained results with limits of Decree No. 38/2001 Coll., amended by Decree 186/2003 Coll. and evaluation of the conformity with these regulations is mentioned on the pages No.1-2 of this testimonial.

Evaluation of hygienic parameters comes from the EC directive - European parliament and Council regulation No. 1935/2004 for materials and articles intended into the contact with foodstuffs and about repealing of Directives 80/590/EEC and 89/109/EEC.

Ing. Jiří Samsonek, Ph.D.
Head of the Laboratory
of analytical chemistry and microbiology



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