



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

Testing Laboratory No. 1004

accredited by ČIA according to ČSN EN ISO/IEC 17025:2018



Testing laboratory * Calibration laboratory * Product certification body * Management systems certification body
Inspection body * Authorized body * Notified body

Number of pages: 6

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ACCREDITED LABORATORY TEST REPORT ref.No. 472115174-01

Client: Paul Stricker SA
VAT: 501888640

Address: Zona Industrial de Murte de, Lt 5, 3060-372 Murte de, Portugal

Sample: 94045 PANTHONY MAT Porcelain mug

Sample received on: March 18, 2022 and May 6, 2022
(See on the page No. 2 of this document)

Report elaborated by: Dipl. Ing. Ludmila Zálešáková

Place and date of issue: Zlín, June 7, 2022



Dipl. Ing. Jiří Samsonek, Ph.D.
Head of Accredited Testing Laboratory

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
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Sample description and identification:

Table I - Sample description and identification

ITC's number	Sample received on	Sample identification by client	Description of submitted sample
		PANTHONY MAT Porcelain mug	
15174/1	March 18, 2022	94045 102- pink	see Figure 1.
15174/2	March 18, 2022	94045 105 - red	
15174/3	March 18, 2022	94045 106 - white	
15174/4	March 18, 2022	94045 113 - grey	
15174/5	March 18, 2022	94045 114 - royal blue	
15174/6	March 18, 2022	94045 119 – light green	
15174/7	March 18, 2022	94045 122 – dark pink	
15174/8	March 18, 2022	94045 128 - orange	
15174/9	March 18, 2022	94045 132 - purple	
15174/10	March 18, 2022	94045 139 – lime green	
15174/11	March 18, 2022	94045 144 - turquoise blue	
15174/12	May 6, 2022	94045 103 - black	
15174/13	May 6, 2022	94045 104 - blue	
15174/14	May 6, 2022	94045 108 - yellow	

The submitted sample is shown in the following figure No. 1:



Fig. No. 1: 94045 PANTHONY MAT Porcelain mug

Sampling method used:

The test sample was collected and supplied to the laboratory by the client. The laboratory is not responsible for this way of sampling.

Work requested:

Evaluation of hygienic properties of the sample according to the Council Directive 84/500/EEC of 15th October 1984 *relating to ceramic articles intended to come into contact with foodstuffs* and Regulation (EC) No. 1935/2004 of the European Parliament and of the Council on materials and articles intended to come into contact with food.

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Testing method used:

1. Determination of Pb, Cd, Al, As and Co content in the leachate into 4 % aqueous solution of acetic acid by ICP-MS method according to IZP No. A-10-97
2. Evaluation of organoleptic properties according to IZP No. A-04-43

Where internal test procedures (IZP) are specified in the test methods used, the annex to the Accreditation Certificate shall indicate for each internal procedure the links to the standards on which the internal test procedure is based.

Test conditions:

- ad 1 Simulant: 4 % acetic acid (aqueous solution) according to ČSN EN 1388-2
Contact temperature and contact time: $(22 \pm 2)^\circ\text{C}$ / (24 ± 0.5) hrs in dark
Number of test pieces: 4 pcs
- ad 2 Food simulant: boiled and cooled drinking water
Contact temperature and contact time: filled at 100°C and to cooling down at 23°C / 2 hrs
Migration ratio: real filling of the product 350 ml of the simulant
Number of assessors: 6
Sensory test: paired multiplex comparison test

The laboratory is not responsible for information received from customer, which could have influence on the validity of the results. Further information required by the standard/standards and not given in this Test Report are available at a request at the Laboratory.

Testing laboratory:

Workplace no.: 1 - třída Tomáše Bati 299, Louky, 763 02 Zlín

Test results:

The test results are listed in the following tables:

Assessment of organoleptic properties

Table II: Sample No. 15174/1-11: 94045 PANTHONY MAT Porcelain mug

Assessor No.	Unit	Drinking water, filled at 100°C and to cooling down 23°C / 2hrs	
		Odour	Flavour
1	level	0	0
2	level	1	0
3	level	0	0
4	level	0	0
5	level	0	0
6	level	0	0
Mean	level	0	0

Notes to the table II:

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 = Slightly perceptible off-odour or off-taste

3 = Clearly perceptible off-odour or off-taste

4 = Strong off-odour or off-taste

According to Regulation (EC) No. 1935/2004 of the European Parliament and of the Council the articles shall not cause deterioration in the organoleptic characteristics of food.

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Evaluation of the content of selected elements in the leachate

Table III: Sample No. 15174/1: 94045 102 - PANTHONY MAT Porcelain mug – pink

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate: category II - articles that can be filled; filling volume: 420 ml					
Pb	mg/l	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 4.0
Cd	mg/l	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.3
Al	mg/l	<0.05; <0.05; <0.05; <0.05	<0.05	-	-
As	mg/l	<0.01; <0.01; <0.01; <0.01	<0.05	-	-
Co	mg/l	<0.01; <0.01; <0.01; <0.01	<0.01	-	-
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

Table IV: Sample No. 15174/2: 94045 105 - PANTHONY MAT Porcelain mug – red

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

Table V: Sample No. 15174/3: 94045 106 - PANTHONY MAT Porcelain mug – white

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

Table VI: Sample No. 15174/4: 94045 113 - PANTHONY MAT Porcelain mug – grey

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

Table VII: Sample No. 15174/5: 94045 114 - PANTHONY MAT Porcelain mug – royal blue

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

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Table VIII: Sample No. 15174/6: 94045 119 - PANTHONY MAT Porcelain mug – light green

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

Table IX: Sample No. 15174/7: 94045 122 - PANTHONY MAT Porcelain mug – dark pink

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

Table X: Sample No. 15174/8: 94045 128 - PANTHONY MAT Porcelain mug – orange

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

Table XI: Sample No. 15174/9: 94045 132 - PANTHONY MAT Porcelain mug – purple

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

Table XII: Sample No. 15174/10: 94045 139 - PANTHONY MAT Porcelain mug – lime green

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

Table XIII: Sample No. 15174/11: 94045 144 - PANTHONY MAT Porcelain mug – turquoise blue

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

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**Table XIV: Sample No. 15174/12: 94045 103 - PANTHONY MAT Porcelain mug – black**

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

Table XV: Sample No. 15174/13: 94045 104 - PANTHONY MAT Porcelain mug – blue

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

Table XVI: Sample No. 15174/14: 94045 108 - PANTHONY MAT Porcelain mug – yellow

Parameter	Unit	Test result ¹⁾		Uncertainty	Limit ²⁾
		Single results	Average		
Leachate from drinking rim; volume of test solution: 450 ml					
Pb	mg/article	<0.01; <0.01; <0.01; <0.01	<0.01	-	max. 2.0
Cd	mg/article	<0.001; <0.001; <0.001; <0.001	<0.001	-	max. 0.2

Notes to the tables III - XVI:

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

2) Limit values according to Council Directive 84/500/EEC.

Dipl. Ing. Daniel Vít
Head of the analytical and microbiology laboratory**Note: The results given in this Test Report apply only to the sample tested by our laboratory!**

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