

**Test Report No.:** 168569073a 001

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**Client:** History&Heraldry (HongKong)Ltd.  
Unit 507, 5/F, Chinachem Golden Plaza, 77 Mody Road, Tsim Sha Tsui East,  
Kowloon, Hong Kong.

**Identification/  
Model No(s):** Plant Pot Mug  
H0558

**Sample obtaining method:** Sending by customer

**Condition at delivery:** Test item complete and undamaged.

**Sample Receiving date:** 2025-08-05

**Testing Period:** 2025-08-12 to 2025-08-28

**Place of testing:** Chemical laboratory Shenzhen, Toys laboratory Shenzhen

**Test specification:**

**Test conclusion:**

|   |      |
|---|------|
| Thermal shock test result (With reference to EN 1183: 1997, Method B)   | PASS |
| EN 12875-1:2005 Mechanical dishwashing resistance of utensils – Part 1: Reference test method for domestic articles   | PASS |
| EN 15284:2007 Materials and articles in contact with food stuffs – Test method for the resistance to microwaveheating of ceramic, glass, glass-ceramic or plastics cookware | PASS |
| REACH Regulation (EC) No. 1907/2006, the last amendment EU) 2015/628 entry 63 of Annex XVII - Total Lead Content  | PASS |
| Total Heavy Metal Content - Packaging Waste Total Heavy Metal Content - 94/62/EC  | PASS |
| Performed parameter(s) for the compliance with the following regulations concerning materials in contact with foodstuff:  | PASS |
| - German §31 LFGB (Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch)   |      |
| - Regulation (EC) No 1935/2004  |      |

**Other information:**

(1) Information provided by customer:  
Country of Origin: CHINA

For and on behalf of  
TÜV Rheinland (Shenzhen) Co., Ltd.





2025-08-29 Candy He/ Lab. Supervisor  

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Date Name/Position

2025-08-29 Heidi Li/ Project Engineer  

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Date Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.  
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts.  
This test report does not entitle to carry any safety mark on this or similar products.  
'Decision Rule' document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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**Material list**

| <b>Material No.</b> | <b>Material</b>  | <b>Color</b>    | <b>Location</b>      |
|---------------------|------------------|-----------------|----------------------|
| M001                | Ceramic          | Orange          | Interior of mug      |
| M002                | Ceramic          | Orange/brown    | Rim of mug           |
| M003                | Ceramic          | Blue            | Interior of mug      |
| M004                | Ceramic          | Blue/brown      | Rim of mug           |
| M005                | Ceramic          | Yellow          | Interior of mug      |
| M006                | Ceramic          | Yellow/brown    | Rim of mug           |
| M007                | Ceramic          | Turquoise       | Interior of mug      |
| M008                | Ceramic          | Turquoise/brown | Rim of mug           |
| M009                | Ceramic          | Multicolor      | Mug(Orange style)    |
| M010                | Ceramic          | Multicolor      | Mug(Blue style)      |
| M011                | Ceramic          | Multicolor      | Mug(Yellow style)    |
| M012                | Ceramic          | Multicolor      | Mug(Turquoise style) |
| M013                | Paper + printing | Brown/red       | Packing box          |
| M014                | Paper            | Brown           | Paper board          |

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**Overall Results:**

| Test No. | Tested Item   | Conclusion |
|----------|---|------------|
| 1        | Thermal shock test result (With reference to EN 1183: 1997, Method B)   | Pass       |
| 2        | EN 12875-1:2005 Mechanical dishwashing resistance of utensils – Part 1: Reference test method for domestic articles   | Pass       |
| 3        | EN 15284:2007 Materials and articles in contact with food stuffs – Test method for the resistance to microwaveheating of ceramic, glass, glass-ceramic or plastics cookware | Pass       |
| 4        | REACH Regulation (EC) No. 1907/2006, the last amendment EU) 2015/628 entry 63 of Annex XVII - Total Lead Content  | Pass       |
| 5        | Total Heavy Metal Content - Packaging Waste Total Heavy Metal Content - 94/62/EC  | Pass       |
| 6        | Sensorial examination   | Pass       |
| 7        | Release of Heavy Metals from Ceramic Ware   | Pass       |
| 8        | Release of Heavy Metals from Ceramic Ware - Drinking Rim  | Pass       |

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## Results

## 1. EN 1183:1997 Materials and articles in contact with foodstuffs – Test methods for thermal shock and thermal shock endurance

|          |   |   |                            |
|----------|---|---|----------------------------|
|          |   | <b>Test No.:</b>  | T001                       |
|          |   | <b>Material No.:</b>  | M009, M010,<br>M011, M012  |
| <b>1</b> | <b>Scope</b>                              |   |                            |
| <b>2</b> | <b>Definitions</b>                        |   |                            |
| <b>3</b> | <b>Principle</b>                          |   |                            |
| <b>4</b> | <b>Apparatus</b>                          |   |                            |
| <b>5</b> | <b>Samples</b>                            |   |                            |
| <b>6</b> | <b>Procedures</b>                         |   |                            |
| 6.1      | Test method A                             |   | NT                         |
| 6.2      | Test method B                             | Cold water temperature:<br>20 °C<br>Test oven temperature:<br>60 - 160 °C                       | --                         |
| 6.3      | Determination of thermal shock resistance | Thermal shock endurance<br>$\Delta t_{50} > 140$ °C<br>Refer to enclosed table 1 for reference. | PASS<br>(refer to Note #1) |
| <b>7</b> | <b>Expression of results</b>              | --  | --                         |

Note #1:

| $t_1$ [°C] ± 2°C                       | $t_2$ [°C] ± 2°C | $t_1 - t_2$ [°C] ± 2°C | Number of failure in $t_1$ | Cumulative failure in % | Type of failure |
|--|------------------|------------------------|----------------------------|-------------------------|-----------------|
| 60                                     | 20               | 40                     | 0                          | --                      | --              |
| 70                                     | 20               | 50                     | 0                          | --                      | --              |
| 80                                     | 20               | 60                     | 0                          | --                      | --              |
| 90                                     | 20               | 70                     | 0                          | --                      | --              |
| 100                                    | 20               | 80                     | 0                          | --                      | --              |
| 110                                    | 20               | 90                     | 0                          | --                      | --              |
| 120                                    | 20               | 100                    | 0                          | --                      | --              |
| 140                                    | 20               | 120                    | 0                          | --                      | --              |
| 160                                    | 20               | 140                    | 0                          | --                      | --              |
| Temperature difference $\Delta t_{50}$ |                  |                        | [°C]                       | > 140 °C                |                 |
| Standard deviation $s$                 |                  |                        | [°C]                       | /                       |                 |

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**Remark:**

- \*1. Only 4x10 pieces sample were tested in this result table.
- \*2. As specified by client, the maximum delta T is specified to 160°C during this thermal shock resistance test, and the acceptance limit is specified as 140°C.

**2.EN 12875-1:2005 Mechanical dishwashing resistance of utensils – Part 1: Reference test method for domestic articles**

|  |   |   |   |
|--|---|---|---|
| <b>EN 12875-1:2005 Mechanical dishwashing resistance of utensils – Part 1: Reference test method for domestic articles</b> |   |   |   |
| <b>1</b>   | <b>Scope</b>  |   |   |
| <b>2</b>   | <b>Normative references</b>   |   |   |
| <b>3</b>   | <b>Terms and definitions</b>  |   |   |
| <b>4</b>   | <b>Principle</b>  |   |   |
| <b>5</b>   | <b>Reagents</b>   |   |   |
| <b>6</b>   | <b>Features of the dishwasher</b>   |   |   |
| <b>7</b>   | <b>Test specimens</b>   | M009, M010, M011, M012  |   |
| <b>8</b>   | <b>Procedure</b>  |   |   |
| 8.1  | Preparation of test dishwasher  |   |   |
| 8.2  | Loading the test dishwasher   |   |   |
| 8.3  | Test cycle<br><br>Temperature: 60 °C Standard program,<br>- Main water temperature: 60 °C ± 2 °C<br>- Hot rinse temperature: 65 °C ± 2 °C<br>Number of cycle: 10<br>Investigation: 10 cycles<br><br>(Requirement: Sample(s) must not show any damages or not removable surface changes) | No any damage or change was noticed after the 10 cycles testing.<br><br>Requirement passed.<br><br>See enclosed exhibit photos E01-E04 shown on page 19-20 for reference. | P <input checked="" type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input type="checkbox"/><br>N/T <input type="checkbox"/> |
| <b>9</b>   | <b>Expression of results</b>  |   |   |
| <b>10</b>  | <b>Test report</b>  |   |   |

**Remark(s):**

(1) Clause 8.3 under EN 12875-1:2005, the 10 test cycles was specified by client.

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### 3. EN 15284:2007 Materials and articles in contact with food stuffs – Test method for the resistance to microwave heating of ceramic, glass, glass-ceramic or plastics cookware

| EN 15284:2007 Materials and articles in contact with food stuffs – Test method for the resistance to microwave heating of ceramic, glass, glass-ceramic or plastics cookware |  |   |   |
|--|--|---|---|
| <b>1</b>   | <b>Scope</b>   |   |   |
| <b>2</b>   | <b>Principle</b>   |   |   |
| <b>3</b>   | <b>Apparatus</b>   |   |   |
| <b>4</b>   | <b>Test specimens</b>  | M009, M010, M011, M012  | N/A   |
| <b>5</b>   | <b>Calibration of microwave oven</b>   |   |   |
| 5.1  | Determination of power output  | Power output: 650 W   | N/A   |
| 5.2  | Determination of heating time  | Short period: 111 seconds<br>Long period: 720 seconds   | N/A   |
| <b>6</b>   | <b>Procedure</b>   |   |   |
| <b>7</b>   | <b>Results</b>   |   |   |
| /  | Short period heating   | -   | /   |
| /  | No arcing and/or Damage acc. to Table 1  |   | /   |
| /  | The maximum surface temperature of handle after the short period heating shall not exceed the following limit values:<br>Ceramic, glass-ceramic or glass: 56 °C;<br>Plastics: 60 °C.<br><br>Maximum surface temperature after short heating period | Surface temperature:<br><b>(please refer to the below result table)</b><br><br>No arcing occurred during and after short heating period.<br><br>Requirement passed. | P <input checked="" type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input type="checkbox"/><br>N/T <input type="checkbox"/> |
| /  | Long period heating  |   |   |
| /  | No arcing and/or Damage acc. to Table 1  | No arcing and damage during and after long heating period.<br><br>Requirement passed.   | P <input checked="" type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input type="checkbox"/><br>N/T <input type="checkbox"/> |
| /  | Maximum surface temperature of handle after long heating period.<br>(Optional)   | Surface temperature:<br><b>(please refer to the below result table)</b><br><br>Note: temperature for long period heating record for reference only.                 | /   |
| <b>8</b>   | <b>Test report</b>   |   |   |

| Table 1 — Inspection criteria |          |                |                |                |                |             |                        |          |
|-------------------------------|----------|----------------|----------------|----------------|----------------|-------------|------------------------|----------|
| Material                      | Cracking | Crazing        | Scaling        | Colour         | Melting        | Deformation | Suitability for re-use | Charring |
| Ceramic                       | +        | + <sup>a</sup> | + <sup>b</sup> | + <sup>c</sup> |                |             |                        |          |
| Glass, glass-ceramic          | +        |                | + <sup>b</sup> | + <sup>c</sup> |                |             |                        |          |
| Plastics                      | +        |                |                | + <sup>c</sup> | + <sup>d</sup> | +           | + <sup>e</sup>         | +        |

(+) = to be inspected  
<sup>a</sup> refers to the glaze  
<sup>b</sup> refers to on-glaze decoration  
<sup>c</sup> if several colours are present on one article to be inspected, the colour with the greatest change shall be chosen  
<sup>d</sup> article shall not be too soft to handle  
<sup>e</sup> article shall be washable and stain resistant

| Material No. | Short period heating(°C) | Long period heating(°C) |
|--------------|--------------------------|-------------------------|
| M009-a       | 35.8                     | 67.0                    |
| M009-b       | 47.3                     | 85.9                    |
| M009-c       | 32.9                     | 60.2                    |
| M010-a       | 36.1                     | 70.6                    |
| M010-b       | 35.3                     | 62.4                    |
| M010-c       | 35.8                     | 68.7                    |
| M011-a       | 35.2                     | 71.7                    |
| M011-b       | 43.0                     | 77.9                    |
| M011-c       | 38.5                     | 77.2                    |
| M012-a       | 39.7                     | 75.4                    |
| M012-b       | 41.8                     | 78.3                    |
| M012-c       | 41.5                     | 76.7                    |

**4.Sensorial examination**

Test method: It is examined to the extent of food simulant being used, which comes into contact with the product, undergoes detectable changes in taste and smell.

For this purpose, the food simulant was stored in the product under the below mentioned time and temperature. Afterwards, the food simulant was examined by an appropriate number of tasters with regard to any divergence in smell and taste. Another test sample, which was used as a reference, was treated by the same way except that it had no contact with the product to be tested.

*Before testing, the product had been cleaned according to the product’s instruction manual or in the absence of such manual, by normal household cleaning.*

The test is carried out on the basis of DIN 10955:2024 by paired comparison test:

- Evaluation scheme:
- 0 = No perceptible difference
  - 1 = Just perceptible difference (still difficult to define)
  - 2 = Slight difference (possible to define)
  - 3 = Marked difference
  - 4 = Strong difference
  - Limit: 3 (failed)

The following food simulants and conditions were applied:

| Food simulant | Test duration / Temperature                                |
|---------------|--|
| Water         | Fill with boiling water and let stand at 40°C for 24 hours |

|                    |               |
|--------------------|---------------|
| Test No.:          | T001          |
| Material No.:      | M001          |
| <b>Parameter:</b>  | <b>Result</b> |
| Transfer of Smell: | 0.5           |
| Transfer of Taste: | 0.5           |

|                    |               |
|--------------------|---------------|
| Test No.:          | T002          |
| Material No.:      | M003          |
| <b>Parameter:</b>  | <b>Result</b> |
| Transfer of Smell: | 1             |
| Transfer of Taste: | 1             |

|                    |               |
|--------------------|---------------|
| Test No.:          | T003          |
| Material No.:      | M005          |
| <b>Parameter:</b>  | <b>Result</b> |
| Transfer of Smell: | 0.5           |
| Transfer of Taste: | 0.5           |

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|                    |               |
|--------------------|---------------|
| Test No.:          | T004          |
| Material No.:      | M007          |
| <b>Parameter:</b>  | <b>Result</b> |
| Transfer of Smell: | 0.5           |
| Transfer of Taste: | 0.5           |

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### 5. Release of Heavy Metals from Ceramic Ware

- Test method: The test is performed reference to EN 1388-1:1995, EN 1388-2:1995 and DIN 51031:1986 respectively. The concentration of the elements is examined by means of atomic absorption spectroscopy or ICP-MS.
- Limit: Pb, Cd: Directive 84/500/EEC  
 Co: Working group of food chemistry experts from the federal states and the Federal Office of Consumer Protection and Food Safety (ALS), 109<sup>th</sup> Session 2017, Opinion No.2017/15  
 Zn, Ba, Sb: Austrian Ceramic Ordinance

The following food simulant and condition was applied:

| Food simulant   | Test duration / Temperature |
|-----------------|-----------------------------|
| Acetic acid 4 % | 24 hours / 22 °C            |

| Test No.:        | T001                |        |                         |
|------------------|---------------------|--------|-------------------------|
| Category:        | 2                   |        |                         |
| Internal volume: | Less than one litre |        |                         |
| Sample No.:      | M001                |        |                         |
| Parameter        | Unit                | Result | Limit <sup>(1, 2)</sup> |
| Lead (Pb)        | mg/l                | < 0.2  | 4.0                     |
| Cadmium (Cd)     | mg/l                | < 0.02 | 0.3                     |
| Cobalt (Co)      | mg/l                | < 0.05 | 0.1                     |
| Zinc (Zn)        | mg/article          | < 0.5  | 3.0                     |
| Barium (Ba)      | mg/article          | < 0.5  | 1.0                     |
| Antimony (Sb)    | mg/article          | < 0.5  | 1.0                     |

| Test No.:        | T002                |        |                         |
|------------------|---------------------|--------|-------------------------|
| Category:        | 2                   |        |                         |
| Internal volume: | Less than one litre |        |                         |
| Sample No.:      | M003                |        |                         |
| Parameter        | Unit                | Result | Limit <sup>(1, 2)</sup> |
| Lead (Pb)        | mg/l                | < 0.2  | 4.0                     |
| Cadmium (Cd)     | mg/l                | < 0.02 | 0.3                     |
| Cobalt (Co)      | mg/l                | < 0.05 | 0.1                     |
| Zinc (Zn)        | mg/article          | < 0.5  | 3.0                     |
| Barium (Ba)      | mg/article          | < 0.5  | 1.0                     |
| Antimony (Sb)    | mg/article          | < 0.5  | 1.0                     |

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|                  |                     |               |                                |
|------------------|---------------------|---------------|--------------------------------|
| Test No.:        | T003                |               |                                |
| Category:        | 2                   |               |                                |
| Internal volume: | Less than one litre |               |                                |
| Sample No.:      | M005                |               |                                |
| <b>Parameter</b> | <b>Unit</b>         | <b>Result</b> | <b>Limit <sup>(1, 2)</sup></b> |
| Lead (Pb)        | mg/l                | < 0.2         | 4.0                            |
| Cadmium (Cd)     | mg/l                | < 0.02        | 0.3                            |
| Cobalt (Co)      | mg/l                | < 0.05        | 0.1                            |
| Zinc (Zn)        | mg/article          | < 0.5         | 3.0                            |
| Barium (Ba)      | mg/article          | < 0.5         | 1.0                            |
| Antimony (Sb)    | mg/article          | < 0.5         | 1.0                            |

|                  |                     |               |                                |
|------------------|---------------------|---------------|--------------------------------|
| Test No.:        | T004                |               |                                |
| Category:        | 2                   |               |                                |
| Internal volume: | Less than one litre |               |                                |
| Sample No.:      | M007                |               |                                |
| <b>Parameter</b> | <b>Unit</b>         | <b>Result</b> | <b>Limit <sup>(1, 2)</sup></b> |
| Lead (Pb)        | mg/l                | < 0.2         | 4.0                            |
| Cadmium (Cd)     | mg/l                | < 0.02        | 0.3                            |
| Cobalt (Co)      | mg/l                | < 0.05        | 0.1                            |
| Zinc (Zn)        | mg/article          | < 0.5         | 3.0                            |
| Barium (Ba)      | mg/article          | < 0.5         | 1.0                            |
| Antimony (Sb)    | mg/article          | < 0.5         | 1.0                            |

## Abbreviations:

mg/dm<sup>2</sup> = Milligram per square decimetre

mg/l = Milligram per litre

&lt; = Less than

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## Remarks:

- \*1 According to EU Directive 84/500/EEC, articles in contact with food should not exceed the following limits

| Category | Description   | Lead                   | Cadmium                 |
|----------|---|------------------------|-------------------------|
| 1        | Articles which can't and articles which can be filled, the internal depth of which, measured from the lowest point to the horizontal plane passing through the upper rim, does not exceed 25 mm | 0.8 mg/dm <sup>2</sup> | 0.07 mg/dm <sup>2</sup> |
| 2        | Other articles which can be filled  | 4.0 mg/l               | 0.3 mg/l                |
| 3        | Cooking ware; packaging and storage vessels having a capacity of more than three litres   | 1.5 mg/l               | 0.1 mg/l                |

- \*2 According to Austrian Ceramic Ordinance (BGBl. Nr. 893/1993 and its amendment), articles in contact with food should not exceed the following limits:

| Category        | Description            | Zinc                          | Antimony                      | Barium                        |
|-----------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Internal volume | Less than one litre    | 3.0 mg/article <sup>(#)</sup> | 1.0 mg/article <sup>(#)</sup> | 1.0 mg/article <sup>(#)</sup> |
|                 | Greater than one litre | 3.0 mg/l                      | 1.0 mg/l                      | 1.0 mg/l                      |

(#) Calculation is based on the internal volume of the article

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**6. Release of Heavy Metals from Ceramic Ware - Drinking Rim**

**Test method:** The test is performed reference to EN 1388-1, EN 1388-2 and DIN 51031 respectively. The concentration of the elements is examined by means of atomic absorption spectroscopy or ICP-MS.

**Limit:** Acc. to TÜV Rheinland Test Protocol under the scope of Regulation EC 2023/2006 with reference to DIN 51032 and Austrian Ceramic Ordinance

The following food simulant and condition was applied:

| Food simulant   | Test duration / Temperature |
|-----------------|-----------------------------|
| Acetic acid 4 % | 24 hours / 22 °C            |

| Test No.:        | T001                |      |        |                         |                               |
|------------------|---------------------|------|--------|-------------------------|-------------------------------|
| Category:        | Drinking Rim        |      |        |                         |                               |
| Internal volume: | Less than one litre |      |        |                         |                               |
| Sample No.:      | M002                |      |        |                         |                               |
| Parameter        | Unit                | RL   | Result | Limit <sup>(1, 2)</sup> | Technically preventable limit |
| Lead (Pb)        | mg/article          | 0.2  | < RL   | 2                       | ---                           |
| Cadmium (Cd)     | mg/article          | 0.02 | < RL   | 0.2                     | ---                           |
| Cobalt (Co)      | mg/article          | 0.05 | < RL   | ---                     | 0.05                          |
| Zinc (Zn)        | mg/article          | 0.5  | < RL   | 3.0                     | ---                           |
| Barium (Ba)      | mg/article          | 0.5  | < RL   | 1.0                     | ---                           |
| Antimony (Sb)    | mg/article          | 0.5  | < RL   | 1.0                     | ---                           |

| Test No.:        | T002                |      |        |                         |                               |
|------------------|---------------------|------|--------|-------------------------|-------------------------------|
| Category:        | Drinking Rim        |      |        |                         |                               |
| Internal volume: | Less than one litre |      |        |                         |                               |
| Sample No.:      | M004                |      |        |                         |                               |
| Parameter        | Unit                | RL   | Result | Limit <sup>(1, 2)</sup> | Technically preventable limit |
| Lead (Pb)        | mg/article          | 0.2  | < RL   | 2                       | ---                           |
| Cadmium (Cd)     | mg/article          | 0.02 | < RL   | 0.2                     | ---                           |
| Cobalt (Co)      | mg/article          | 0.05 | < RL   | ---                     | 0.05                          |
| Zinc (Zn)        | mg/article          | 0.5  | < RL   | 3.0                     | ---                           |
| Barium (Ba)      | mg/article          | 0.5  | < RL   | 1.0                     | ---                           |
| Antimony (Sb)    | mg/article          | 0.5  | < RL   | 1.0                     | ---                           |

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|                  |                     |           |               |                                |                                      |
|------------------|---------------------|-----------|---------------|--------------------------------|--------------------------------------|
| Test No.:        | T003                |           |               |                                |                                      |
| Category:        | Drinking Rim        |           |               |                                |                                      |
| Internal volume: | Less than one litre |           |               |                                |                                      |
| Sample No.:      | M006                |           |               |                                |                                      |
| <b>Parameter</b> | <b>Unit</b>         | <b>RL</b> | <b>Result</b> | <b>Limit</b> <sup>(1, 2)</sup> | <b>Technically preventable limit</b> |
| Lead (Pb)        | mg/article          | 0.2       | < RL          | 2                              | ---                                  |
| Cadmium (Cd)     | mg/article          | 0.02      | < RL          | 0.2                            | ---                                  |
| Cobalt (Co)      | mg/article          | 0.05      | < RL          | ---                            | 0.05                                 |
| Zinc (Zn)        | mg/article          | 0.5       | < RL          | 3.0                            | ---                                  |
| Barium (Ba)      | mg/article          | 0.5       | < RL          | 1.0                            | ---                                  |
| Antimony (Sb)    | mg/article          | 0.5       | < RL          | 1.0                            | ---                                  |

|                  |                     |           |               |                                |                                      |
|------------------|---------------------|-----------|---------------|--------------------------------|--------------------------------------|
| Test No.:        | T004                |           |               |                                |                                      |
| Category:        | Drinking Rim        |           |               |                                |                                      |
| Internal volume: | Less than one litre |           |               |                                |                                      |
| Sample No.:      | M008                |           |               |                                |                                      |
| <b>Parameter</b> | <b>Unit</b>         | <b>RL</b> | <b>Result</b> | <b>Limit</b> <sup>(1, 2)</sup> | <b>Technically preventable limit</b> |
| Lead (Pb)        | mg/article          | 0.2       | < RL          | 2                              | ---                                  |
| Cadmium (Cd)     | mg/article          | 0.02      | < RL          | 0.2                            | ---                                  |
| Cobalt (Co)      | mg/article          | 0.05      | < RL          | ---                            | 0.05                                 |
| Zinc (Zn)        | mg/article          | 0.5       | < RL          | 3.0                            | ---                                  |
| Barium (Ba)      | mg/article          | 0.5       | < RL          | 1.0                            | ---                                  |
| Antimony (Sb)    | mg/article          | 0.5       | < RL          | 1.0                            | ---                                  |

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Remarks:

\*1 According to DIN 51032, articles in contact with food should not exceed the following limits:

| Category     | Description   | Lead           | Cadmium        |
|--------------|---|----------------|----------------|
| Drinking rim | Exterior decoration within 20 mm measured from top of rim | 2.0 mg/article | 0.2 mg/article |

\*2 According to Austrian Ceramic Ordinance (BGBl. Nr. 893/1993 and its amendment), articles in contact with food should not exceed the following limits:

| Category        | Description            | Zinc                          | Antimony                      | Barium                        |
|-----------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Internal volume | Less than one litre    | 3.0 mg/article <sup>(#)</sup> | 1.0 mg/article <sup>(#)</sup> | 1.0 mg/article <sup>(#)</sup> |
|                 | Greater than one litre | 3.0 mg/l                      | 1.0 mg/l                      | 1.0 mg/l                      |

(#) Calculation is based on the internal volume of the article

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**7. Total Lead**

Test Method: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 and CPSC-CH-E1003-09.1 (Microwave method)

**Test result:**

| Test No. | Material No. | Test Parameter | Unit | RL    | Regulatory Requirement | Test Result |
|----------|--------------|----------------|------|-------|------------------------|-------------|
| T001     | M009 + M010  | Lead Content   | %    | 0.001 | 0.05                   | 0.021       |
| T002     | M011         | Lead Content   | %    | 0.001 | 0.05                   | 0.012       |
| T003     | M012         | Lead Content   | %    | 0.001 | 0.05                   | 0.017       |

**Abbreviation:** < = less than  
 RL = Reporting Limit  
 % = Percentage

**Remark:**

| * | Country | Legislation   | Maximum Permissible Limit   |
|---|---------|---|---|
|   | EU      | Paragraph 1-6 of Entry 63 of Annex XVII, REACH Regulation (EC) No. 1907/2006  | For Jewellery, imitation jewellery, hair accessories, bracelets, necklaces , rings, piercing jewellery, wrist watches, wrist-wear, brooches and cufflinks and parts used for jewellery-making<br><br>0.05%<br>(by weight of the individual part)  |
|   |         | Paragraph 7-10 of Entry 63 of Annex XVII, REACH Regulation (EC) No. 1907/2006 | Articles supplied to the general public during normal or reasonably foreseeable conditions of use, be placed in the mouth by children<br><br>0.05%<br>(by weight of the individual part)<br><br>The limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any such accessible part of an article, whether coated or uncoated, does not exceed 0,05 µg/cm <sup>2</sup> per hour (equivalent to 0,05 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a period of at least two years of normal or reasonably foreseeable conditions of use of the article. |

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**8. Total Heavy Metal Content - Packaging Waste Total Heavy Metal Content - 94/62/EC**

Test Method: Sample digestion, analyzed by ICP-OES / Ultraviolet Visible Spectrophotometer (UV-Vis)

**Result:**

| Test No. | Material No. | Test Parameters              | Unit  | RL | Regulatory Requirement | Result | Conclusion |
|----------|--------------|------------------------------|-------|----|------------------------|--------|------------|
| T001     | M014 + M013  | Pb                           | mg/kg | 10 | -                      | < RL   | -          |
|          |              | Cd                           | mg/kg | 10 | -                      | < RL   | -          |
|          |              | Cr (VI)                      | mg/kg | 10 | -                      | < RL   | -          |
|          |              | Hg                           | mg/kg | 10 | -                      | < RL   | -          |
|          |              | Sum of Pb, Cd, Cr(VI) and Hg | mg/kg | -- | 100                    | <RL    | Pass       |

**Abbreviation:** < = less than  
 RL = Reporting Limit  
 mg/kg = milligram per kilogram

**Remark:**

- \* According to "European Parliament and Council Directive 94/62/EC of 20 December 1994"; the maximum permissible limit of the sum of the concentration of Lead, Cadmium, Mercury and Hexavalent Chromium is 100ppm.
- \*\* Single element with an amount of less than reporting limit were not considered by the calculation of the sum. In the case of all elements were less than reporting limit, the result is stated < RL.

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Sample picture(s):



M001, M002, M009



M003, M004, M010



M005, M006, M011



M007, M008, M012



E01-1 Top view (No changes)



E01-2 Bottom view (No changes)



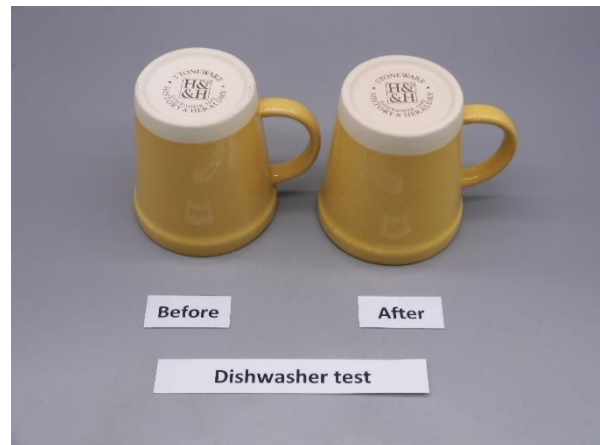
E02-1 Top veiw (No changes)



E02-2 Bottom view (No changes)



E03-1 Top veiw (No changes)



E03-2 Bottom view (No changes)



E04-1 Top veiw (No changes)



E04-2 Bottom view (No changes)

- END -

