# Test Report

**Report No.:** DGCTT1910032684ENR1 **Date:** Nov. 08, 2019 

**Applicant:** HEADWIND CERAMIC LTD
**Address:** 7F GOLD UNION COMM BLDG., 70-72 CONNAUGHT ROAD WEST, HONG KONG

**Sample Received Date:** Oct. 24, 2019
**Completed Date:** Nov. 08, 2019

The following merchandise was (were) submitted and identified on behalf of the applicant as:

**Sample Name:** Cork Mug
**Sample Model:** CDKW059-BK, CDKW059-WH, CDKW059-GY, CDKW059-NV
**Exported to:** USA
**Supplier:** Headwind Ceramic Ltd **Country of Origin:** China
**Sample Color:** White, Black, Navy, Grey

**Test Result(s):** Please refer to next page(s).

**Test Requested and Conclusion(s):** Please refer to next page(s).

Signed for and on Behalf of CTT

Simon Yang / Technical Manager
Consumer Testing Technology Co., Ltd.

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# Test Report



**Test Requested and Conclusion(s):**

| No. | Test Sample | Standard and Requirement | Conclusion(s) |
|---|---|---|---|
| 1 | Tested materials of submitted samples | U.S.Food and Drug Administration(FDA) CPG Sec. 545.400 Pottery (Ceramics); Imported and Domestic - Cadmium Contamination (CPG 7117.06) & CPG Sec. 545.450 Pottery (Ceramics); Imported and Domestic - Lead Contamination (CPG 7117.07).<br>- Leachable Lead(Pb) & Cadmium(Cd) | PASS |
| 2 | Tested materials of submitted samples | San Francisco Superior Court, Case No.938430 on food and beverage use ceramicware – Interior<br>- Extractable Lead (Pb) &Cadmium (Cd) | PASS |
| 3 | Tested materials of submitted samples | Canada Consumer Product Safety Act (CCPSA), S.C., c. 21, Glazed Ceramics and Glassware Regulations SOR/2016-175.<br>- Leachable Lead (Pb) & Cadmium (Cd) | PASS |
| 4 | Tested materials of submitted samples | Client's requirements on Bisphenol A (BPA) | PASS |
| 5 | Tested materials of submitted samples | Total Lead(Pb) | DATA |

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# Test Report



**Test Result(s):**

U.S.Food and Drug Administration(FDA) CPG Sec. 545.400(CPG 7117.06) & CPG Sec. 545.450 (CPG 7117.07) - Leachable Lead(Pb)&Cadmium(Cd)

Method: With reference to ASTM C738-94(2011), analyzed by Atomic Absorption Spectrometer (AAS) / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

| Material No. | Sample | Result(μg/mL) | | Conclusion |
|---|---|---|---|---|
| | | Leachable Lead(Pb) | Leachable Cadmium(Cd) | |
| | Limit (μg/mL) | 0.5 | 0.5 | |
| 1 | (1) | ＜0.1 | ＜0.01 | PASS |
| | (2) | ＜0.1 | ＜0.01 | |
| | (3) | ＜0.1 | ＜0.01 | |
| | (4) | ＜0.1 | ＜0.01 | |
| | (5) | ＜0.1 | ＜0.01 | |
| | (6) | ＜0.1 | ＜0.01 | |
| | Average | ＜0.1 | ＜0.01 | |

**Note:** 1. Volume of 4% Acetic acid used 360 ml..

2. μg/mL = Micrograms per milliliter.

3. Permissible limits for articles

| Category | Criteria | Lead(Pb) (μg/mL) | Cadmium(Cd) (μg/mL) |
|---|---|---|---|
| Flatware | Average of 6 units | 3.0 | 0.5 |
| Small Hollowware other than cups and mugs | Any one of 6 units | 2.0 | 0.5 |
| Cups/mugs | Any one of 6 units | 0.5 | |
| Large Hollowware other than pitchers | Any one of 6 units | 1.0 | 0.25 |
| Pitchers | Any one of 6 units | 0.5 | |

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# Test Report



**Test Result(s):**

San Francisco Superior Court, Case No.938430 - Extractable Lead(Pb) & Cadmium(Cd) on food and beverage use ceramicware – Interior

Method: With reference to ASTM C738-94(2011), analyzed by Atomic Absorption Spectrometer (AAS) / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

| Material No. | Sample | Result(mg/L) | | Conclusion |
|---|---|---|---|---|
| | | Extractable Lead(Pb) | Extractable Cadmium(Cd) | |
| | Limit (mg/L) | 0.1 | 0.189 | |
| 1 | (1) | ＜0.1 | ＜0.01 | PASS |
| | (2) | ＜0.1 | ＜0.01 | |
| | (3) | ＜0.1 | ＜0.01 | |
| | (4) | ＜0.1 | ＜0.01 | |
| | (5) | ＜0.1 | ＜0.01 | |
| | (6) | ＜0.1 | ＜0.01 | |

**Note:** 1. Volume of 4% Acetic acid used 360 ml.

2. mg/L = Milligram per liter.

3. Permissible limits for articles

| Category | Criteria | Lead(Pb) (mg/L) | Cadmium(Cd) (mg/L) |
|---|---|---|---|
| Flatware | Average of 6 units | 0.226 | 1.853 |
| Small Hollowware | Any one of 6 units | 0.100 | 0.189 |
| Large Hollowware | Any one of 6 units | | 0.049 |

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# Test Report



**Test Result(s):**

Leachable Lead (Pb)&Cadmium (Cd)

Method: Glazed Ceramics and Glassware Regulations SOR/2016-175 section 1, analyzed by Atomic Absorption Spectrometer (AAS).

| Material No. | Sample | Result(mg/L) | | Conclusion |
|---|---|---|---|---|
| | | Leachable Lead (Pb) | Leachable Cadmium (Cd) | |
| | Limit (mg/L) | 0.5 | 0.5 | |
| 1 | (1) | ＜0.1 | ＜0.01 | PASS |
| | (2) | ＜0.1 | ＜0.01 | |
| | (3) | ＜0.1 | ＜0.01 | |
| | (4) | ＜0.1 | ＜0.01 | |
| | Average | ＜0.1 | ＜0.01 | |

**Note:** 1. Volume of 4% Acetic acid used 360 ml.

2. mg/L = Micrograms per liter.

3. Permissible limits for articles

| Category | Lead (Pb) (mg/L) | Cadmium (Cd) (mg/L) |
|---|---|---|
| Flatware | 3.0 | 0.5 |
| Small Hollow are other than cups and mugs | 2.0 | 0.5 |
| Cups/m gs | 0.5 | |
| Large Hollowware other than pitchers | 1.0 | 0.25 |
| Pitchers | 0.5 | |

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**Test Result(s):**

Bisphenol A (BPA)

Method: With reference to EPA 3550C:2007, analyzed by Liquid Chromatography- Mass Spectrometry (LC-MS/MS).

| Material No. | Client's Limit (mg/kg) | Result (mg/kg) | Conclusion |
|---|---|---|---|
| 2 | 1 | N.D. | PASS |
| 4* | 1 | N.D. | PASS |

**Note:** 1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL(Reporting Limit) =0.1mg/kg.
4. "*" = The sample(s) were resubmitted on Nov. 04, 2019 to retest.

Total Lead(Pb)

Method: Canada Health Product Safety Laboratory Book 5 - Laboratory Policies and Procedures Part B: Test Section Method C-02.3:2017(for Polyvinyl Chloride Products), analyzed by Atomic Absorption Spectroscopy (AAS) and Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

| Material No. | Result (mg/kg) |
|---|---|
| 3 | 50 |

**Note:** 1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL (Reporting Limit) = 10 mg/kg.

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**Test Material List:**

| Material No. | Description | Location |
|---|---|---|
| 1 | Ceramic cup | Cup (black/ brown) |
| 2 | White silicone | Silicone ring (black/ brown) |
| 3 | Black plastic + black plastic | Slide cover + cover main body |
| 4 | Black plastic | Cover main body |

**Note:** "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

**Remark:** DGCTT1910032684EN is replaced by this report.

**Photo of Sample:**

***End of Report***

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