



TESTING REPORT

Testing Complete Testing In Progress Rev. #_

Mfg: XXXXXXXXXX
Drawing No.: N/A Dept: SGS Job No.: SHD230845
Pattern Name: Solid Color Glaze Stoneware Mugs Qty. Submitted: 40PCS
Shape Description: 11oz Ceramic Mugs Testing Date: 2011/4/05-2011/4/12
Receiving Date: 2011/4/05

The submitted samples comply with all requested testing requirements.

APPROVED APPROVED WITH CONTINGENCY NOT APPROVED

Engineering Release:
John Donohoe / John Gephart

Comments :

Conclusion: Presented on below table. For details, please refer to the following page(s).

<i>Test Requested</i>	<i>Result/Observation</i>	<i>Test #</i>
A.Extractable Lead & Cadmium in Ceramic – Food Contact	CONFORMS	
B.Extractable Lead & Cadmium in Ceramic – Lip Rim	CONFORMS	
C.Extractable Lead & Cadmium in Ceramic – Non Food Contact	CONFORMS	
D.Aged Extractable Lead & Cadmium in Ceramic – Food Contact	CONFORMS	
E.Aged Extractable Lead & Cadmium in Ceramic – Lip Rim	CONFORMS	
F.Aged Extractable Lead & Cadmium in Ceramic – Non Food Contact	CONFORMS	

Signed for and on behalf of
SGS-CSTC Ltd.

Jack Yao
Senior Engineer

- (1) N/A = Not Applicable to testing requested.
- (2) CONFORMS = Meet target value.
- (3) NONCONFORMS = Does not meet target value.
- (4) HOLD = Test is on hold as not enough samples.
- (5) PROGRESS = Test in progress
- (6) N/C = Not being conducted as no compatible.



(a) Extractable Lead & Cadmium in Ceramic – Food Contact

Reference Standard : Modify California Proposition 65
 Standard Test Method for Lead & Cadmium Extracted from Glazed Ceramic Surface by Atomic Absorption Spectroscopy.

Acceptance Level : Flatware Pb 0.226 mcg/ml, Cd 0.500 mcg/ml
 Small Hollowware V<1.1litre Pb 0.1 mcg/ml, Cd 0.322 mcg/ml
 Cups & Mugs Pb 0.1 mcg/ml, Cd 0.322 mcg/ml
 Large Hollowware V>1.1litre Pb 0.1 mcg/ml, Cd 0.084 mcg/ml
 Pitcher Pb 0.1 mcg/ml, Cd 0.084 mcg/ml

Sample Size : 6 pcs

Test Result					
Sample Food Contact Surface	Observation				
	Depth(mm)	Diameter (mm)	Extract Volume (ml)	Lead (mcg/ml)	Cadmium (mcg/ml)
1	88	80	310	<0.01	<0.01
2	88	80	310	<0.01	<0.01
3	88	80	310	<0.01	<0.01
4	88	80	310	<0.01	<0.01
5	88	80	310	<0.01	<0.01
6	88	80	310	<0.01	<0.01
AVG				<0.01	<0.01
St Dev				<0.01	<0.01
AVG + 2* St Dev				<0.01	<0.01

To be Cont'd...

(b) Extractable Lead & Cadmium in Ceramic – Lip Rim

Reference Standard : ASTM C927 Lead & Cadmium Extracted from the Lip & Rim Area of Glass Tumblers Externally Decorated With Ceramic Glass Enamels
Standard Test Method for Lead & Cadmium Extracted from Glazed Ceramic Surface by Atomic Absorption Spectroscopy.

Acceptance Level : Flatware Pb 4.0 mcg/ml, Cd 0.4 mcg/ml
Small Hollowware V<1.1litre Pb 4.0 mcg/ml, Cd 0.4 mcg/ml
Cups & Mugs Pb 4.0 mcg/ml, Cd 0.4 mcg/ml
Large Hollowware V>1.1litre Pb 4.0 mcg/ml, Cd 0.4 mcg/ml
Pitcher Pb 4.0 mcg/ml, Cd 0.4 mcg/ml

Sample Size : 6 pcs

Sample Lip Rim	Test Result				
	Depth(mm)	Diameter (mm)	Extract Volume (ml)	Lead (mcg/ml)	Cadmium (mcg/ml)
1	88	80	200	<0.01	<0.01
2	88	80	200	<0.01	<0.01
3	88	80	200	<0.01	<0.01
4	88	80	200	<0.01	<0.01
5	88	80	200	<0.01	<0.01
6	88	80	200	<0.01	<0.01
AVG				<0.01	<0.01
St Dev				<0.01	<0.01
AVG + 2* St Dev				<0.01	<0.01

(c) Extractable Lead & Cadmium in Ceramic – Non Food Contact

Reference Standard : ASTM C738 Lead & Cadmium Extracted from Glazed Ceramic Surfaces
Standard Test Method for Lead & Cadmium Extracted from Glazed Ceramic Surface by Atomic Absorption Spectroscopy.

Acceptance Level : Flatware Pb 75 µgm/cm², Cd 7.5 µgm/cm²
Small Hollowware V<1.1litre Pb 75 µgm/cm², Cd 7.5 µgm/cm²
Cups & Mugs Pb 75 µgm/cm², Cd 7.5 µgm/cm²
Large Hollowware V>1.1litre Pb 75 µgm/cm², Cd 7.5 µgm/cm²
Pitcher Pb 75 µgm/cm², Cd 7.5 µgm/cm²

Sample Size : 6 pcs

Sample Non-Food Contact Surface	Test Result				
	Depth(mm)	Diameter (mm)	Extract Volume (ml)	Lead (µgm/cm ²)	Cadmium (µgm/cm ²)
1	88	80	800	<0.01	<0.01
2	88	80	800	<0.01	<0.01
3	88	80	800	<0.01	<0.01
4	88	80	800	<0.01	<0.01
5	88	80	800	<0.01	<0.01
6	88	80	800	<0.01	<0.01
AVG				<0.01	<0.01
St Dev				<0.01	<0.01
AVG + 2* St Dev				<0.01	<0.01

To be Cont'd...



(d) Aged Extractable Lead & Cadmium in Ceramic – Food Contact

Reference Standard : Modify California Proposition 65
 After place the samples at the detergent chamber with 65 degree C for 72 hours.
 Standard Test Method for Lead & Cadmium Extracted from Glazed Ceramic Surface by Atomic Absorption Spectroscopy.

Acceptance Level : Flatware Pb 0.226 mcg/ml, Cd 0.500 mcg/ml
 Small Hollowware V<1.1litre Pb 0.1 mcg/ml, Cd 0.322 mcg/ml
 Cups & Mugs Pb 0.1 mcg/ml, Cd 0.322 mcg/ml
 Large Hollowware V>1.1litre Pb 0.1 mcg/ml, Cd 0.084 mcg/ml
 Pitcher Pb 0.1 mcg/ml, Cd 0.084 mcg/ml

Sample Size : 6 pcs

Sample Food Contact Surface	Test Result				
	Depth(mm)	Diameter (mm)	Extract Volume (ml)	Lead (mcg/ml)	Cadmium (mcg/ml)
1	88	80	200	<0.01	<0.01
2	88	80	200	<0.01	<0.01
3	88	80	200	<0.01	<0.01
4	88	80	200	<0.01	<0.01
5	88	80	200	<0.01	<0.01
6	88	80	200	<0.01	<0.01
AVG				<0.01	<0.01
St Dev				<0.01	<0.01
AVG + 2* St Dev				<0.01	<0.01

(e) Aged Extractable Lead & Cadmium in Ceramic – Lip Rim

Reference Standard : Modify ASTM C927 Lead & Cadmium Extracted from the Lip & Rim Area of Glass Tumblers Externally Decorated With Ceramic Glass Enamels
 After place the samples at the detergent chamber with 65 degree C for 24 hours.
 Standard Test Method for Lead & Cadmium Extracted from Glazed Ceramic Surface by Atomic Absorption Spectroscopy.

Acceptance Level : Flatware Pb 4.0 mcg/ml, Cd 0.40 mcg/ml
 Small Hollowware V<1.1litre Pb 4.0 mcg/ml, Cd 0.40 mcg/ml
 Cups & Mugs Pb 4.0 mcg/ml, Cd 0.40 mcg/ml
 Large Hollowware V>1.1litre Pb 4.0 mcg/ml, Cd 0.40 mcg/ml
 Pitcher Pb 4.0 mcg/ml, Cd 0.40 mcg/ml

Sample Size : 6 pcs

Sample Lip Rim	Test Result				
	Depth(mm)	Diameter (mm)	Extract Volume (ml)	Lead (mcg/ml)	Cadmium (mcg/ml)
1	88	80	200	<0.01	<0.01
2	88	80	200	<0.01	<0.01
3	88	80	200	<0.01	<0.01
4	88	80	200	<0.01	<0.01
5	88	80	200	<0.01	<0.01
6	88	80	200	<0.01	<0.01
AVG				<0.01	<0.01
St Dev				<0.01	<0.01
AVG + 2* St Dev				<0.01	<0.01

To be Cont'd...

(f) Aged Extractable Lead & Cadmium in Ceramic – Non Food Contact



Reference Standard : Modify ASTM C738 Lead & Cadmium Extracted from Glazed Ceramic Surfaces
 After place the samples at the detergent chamber with 65 degree C for 24 hours.
 Standard Test Method for Lead & Cadmium Extracted from Glazed Ceramic

Acceptance Level : Flatware Pb 75.0 µgm/cm², Cd 7.5 µgm/cm²
 Small Hollowware V<1.1litre Pb 75.0 µgm/cm², Cd 7.5 µgm/cm²
 Cups & Mugs Pb 75.0 µgm/cm², Cd 7.5 µgm/cm²
 Large Hollowware V>1.1litre Pb 75.0 µgm/cm², Cd 7.5 µgm/cm²
 Pitcher Pb 75.0 µgm/cm², Cd 7.5 µgm/cm²

Sample Size : 6 pcs

Test Result					
Sample Food Contact Surface	Observation				
	Depth(mm)	Diameter (mm)	Extract Volume (ml)	Lead (µgm/cm ²)	Cadmium (µgm/cm ²)
1	88	80	800	<0.01	<0.01
2	88	80	800	0.02	<0.01
3	88	80	800	<0.01	<0.01
4	88	80	800	<0.01	<0.01
5	88	80	800	<0.01	<0.01
6	88	80	800	<0.01	<0.01
AVG				<0.01	<0.01
St Dev				<0.01	<0.01
AVG + 2* St Dev				<0.01	<0.01

*** End of Report ***