

Product:	Ceramicware [Food-Contact Use]		
Scope:	For Ceramic food-contact articles, excluding cookware & bakeware, etc.	Protocol No.	TYCP-02001-NA
		Version	1.0
		Issue Date	15 Jan 2013
		Prepared by	Intertek HK - TFH
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NB: Where there is no applicable US or CN standard, Intertek has chosen the most relevant International standards to assess the product safety and performance. For undated references, the latest edition of the referenced document (including any amendments) applies.

Attribute	Citation	Requirement / Limit	Result
Supplemental Protocols			
For US Only			
*†CA Prop 65 (mandatory in state California)	Intertek Protocol	Consent Judgment of related court cases based on California Proposition 65.	
*†Children's Products Supplemental (Required if the product is graded as a children product)	Refer to TYCP-00004-US	Shall comply with all requirements in TYCP-00004-US.	
*†CPSIA Supplemental	Refer to TYCP-00001-US	Shall comply with all requirements in TYCP-00001-US.	
For Canada Only			
*†Children's Products Supplemental (Required if the product is graded as a children product)	Refer to TYCP-00004-CN	Shall comply with all applicable requirements.	
<i>Note: Additional cost, sample size & TAT may be required if testing to one or more supplemental protocols is necessary. Please refer to the above referenced supplemental protocol(s) for additional information.</i>			
Chemical Analysis			
For US Only			
*Lead Content of Paints or Similar Surface Coating	16 CFR 1303 (scope widened)	Shall not contain Lead or Lead compounds in which the Lead content is in excess of 0.009% by weight of the total content (90ppm).	
*†Extractable Cadmium & Lead from Interior of Product for ceramics	FDA CPG 7117.06 + 7117.07	Cd: 0.25 ppm (Large Hollowware / Pitchers) 0.5 ppm (Small Hollowware / Cups / Mugs) 0.5 ppm (Flatware) Pb: 1.0 ppm (Large Hollowware) 2.0 ppm (Small Hollowware) 0.5 ppm (Cups / Mugs / Pitchers) 3.0 ppm (Flatware)	
* Extracted Lead and Cadmium from Rim Decoration	SGCD / ASTM C927-80 (R2004) /	Exterior decorations applied within 20 mm of the rim of cups, mugs, glasses or other vessels shall conform to the applicable requirements as defined by the standards: Pb: 4.0 ppm Cd: 0.4 ppm	

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*Extractable Cadmium & Lead in tableware	California Health and Safety Code section 108860	Cd: 0.25 ppm (Large Hollowware / Pitchers) 0.5 ppm (Small Hollowware / Cups / Mugs) 0.5 ppm (Flatware) Pb: 1.0 ppm (Large Hollowware) 2.0 ppm (Small Hollowware) 0.5 ppm (Cups / Mugs / Pitchers) 3.0 ppm (Flatware)																			
*†FDA Solvent Extractive on Plastic Materials and Polymeric Coatings which may have contact with food	21 CFR 170 – 189	Products intended for use in contact with food shall conform to the applicable requirements of the Food, Drug, and Cosmetic Act (FDCA), specifically 21 CFR 170 through 189. Test report or suitable certificate with declaration letter confirming the plastic material that is used for food-contact meeting the FDA requirements shall be provided. In lieu of testing, the above documents can be submitted if dated within 1 year.																			
*†Toxic Elements in Packaging Components	TPCH	Shall comply with TPCH in those states in the US with legislation. Total concentration of Pb, Cd, Hg and hexavalent Cr < 100ppm.																			
For Canada Only																					
*Total Lead in Surface Coating	Canada Consumer Product Safety Act, Surface Coating Materials Regulations (Scope Widened)	Shall not exceed 0.009% (90ppm) total lead.																			
*†Leachable Lead and Cadmium (ceramic or glass material)	Canada Consumer Product Safety Act, Glazed Ceramics and Glassware Regulations	Shall not exceed the following leachable limits: <table border="1" data-bbox="755 1312 1323 1501"> <thead> <tr> <th></th> <th>Lead / mg/L</th> <th>Cadmium / mg/L</th> </tr> </thead> <tbody> <tr> <td>Flatware</td> <td>3.0</td> <td>0.50</td> </tr> <tr> <td>Small Hollowware</td> <td>2.0</td> <td>0.50</td> </tr> <tr> <td>Large Hollowware</td> <td>1.0</td> <td>0.25</td> </tr> <tr> <td>Cups and Mugs</td> <td>0.5</td> <td>0.50</td> </tr> <tr> <td>Pitchers</td> <td>0.5</td> <td>0.25</td> </tr> </tbody> </table>		Lead / mg/L	Cadmium / mg/L	Flatware	3.0	0.50	Small Hollowware	2.0	0.50	Large Hollowware	1.0	0.25	Cups and Mugs	0.5	0.50	Pitchers	0.5	0.25	
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Pitchers	0.5	0.25																			
*†Leachable Lead and Cadmium (Lip & Rim) (Vessels with distinctive exterior decorative pattern within 20 mm of the rim)	Canada Consumer Product Safety Act, Glazed Ceramics and Glassware Regulations	Shall not exceed the following limits: Lead: 4mg/L Cadmium: 0.4mg/L																			

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*†Food-contact Plastics	Division 23 Food and Drug Regulations Health Canada	Shall comply with the requirements. Vendors shall provide test reports or suitable certificates with declaration letters confirming that the plastic materials used with food contact meet specific Health Canada requirements as stated in Division 23 or are among the acceptable polymers listed by Health Canada. Instead, pending individual client's approval, vendors can submit passing reports meeting FDA requirements stated in 21 CFR 175, 177 & 180.22 per plastic type. (Document is valid for 1 year.)	
Physical Characteristic			
Dimensions (L x W x H)	ITS-M0059	Report overall dimensions; shall be within ¼ in. of the claimed value (if applicable).	
Weight (Lbs. / Oz.)	ITS-M0059	Report overall weight; shall meet label claims (if applicable).	
Capacity (Fl. oz.)	ITS-M0059	Report overall capacity; shall be within 5% of total volume (if applicable).	
Construction & Workmanship			
Sharp Points / Edges	16 CFR 1500.48 / 1500.49 (Modified)	Shall have no sharp points/edges, other than those required for function.	
Defects	Visual Check	Shall have no discernible surface degradation, including crazing, shivering, denting, bubbles, cracks, stains, deformations, chips, fractures, heavy lines, waves, shear marks, scratches, scuff marks, indentations, or blisters.	
Workmanship	Visual Check	Shall have no components missing, malformed, and/or fractured.	
Type of Material	Visual Check	Report actual; shall meet label claims (if applicable).	
Top/Lid Fitting Ability	Visual Check	Shall provide a secure but not locking fit.	
Joint	Visual Check	No gap in excess of 0.008 in. (0.2mm) unless this is the design feature. For cookware and bakeware (ovenware) with lids only.	
Performance Test			
Tilt Resistance	ITS-M0015	No tipping on 10° incline.	
Stain Resistance	ITS-M0014	Shall resist permanent staining - Apply various food materials on surface, let stand for 2 hours. Subject to 1 dishwasher or handwash cycle afterwards.	
Water Retention	PAS 54:2003 Clause 4.1.9	No sign of leakage (presence of stain mark).	
Integrity of Handle Strength	EN ISO 8442-8:2000 Clause 6.2	No breakage at handle. Note: - Only applicable for mugs and pitchers. - NOT applicable for integral handle of bakeware.	
Resistance to Freezing	PAS 54 Clause 5.2	No crack or other visible damage.	

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*Thermal Shock Endurance	EN 1183:1997 Test Method B & PAS 54 Clause 4.1.4	For cups, mugs, teapots and coffee pots Temperature differential $\geq 194^{\circ}\text{F}$ (90°C) For ovenware Temperature differential $\geq 302^{\circ}\text{F}$ (150°C)	
*Dishwasher Safe (For ceramic articles only)	With reference to EN 12875-4:2006 Clause 8	No major loss in gloss or colors when inspected per EN 12875-2.	
*Dishwasher Safe (Other than those ceramic parts)	ITS-M0001	Dishwasher with detergent for 10 cycles – no color change or adverse effects.	
*Handwash Safe (If claimed to be not dishwasher safe)	ITS-M0003	10 cycles of hand wash in using domestic detergent rubbed with damp cloth gently with warm water (140°F) - No adverse effects.	
*Impact Resistance	ASTM C368-88 (Reapproved 2006)	Average impact energy to produce failure $\geq 0.05\text{J}$.	
Heat Resistance (For oven-use articles)	With reference to EN 13834 Clause 6.1.8	Shall show no damage after testing for 1 hour at : - a temperature of 20°C above the manufacturer's recommended maximum temperature (if claimed); or - 250°C where no maximum temperature is given	
Resistance to Freezer to Oven Usage	With reference to PAS 54 Clause 5.2	No crack or other visible damage	
Microwave Safe	ASTM C1607-06 (Modified)	<ul style="list-style-type: none"> No crack or damage Surface temperature after test: For flatware - After 1 minute test: $\leq 160^{\circ}\text{F}$ (71°C) - After 5 minutes test: $\leq 325^{\circ}\text{F}$ (163°C) For cups and mugs - Handle: $\leq 140^{\circ}\text{F}$ (60°C) - Body: $\leq 250^{\circ}\text{F}$ (121°C) Modification: A microwave oven with 1000 Watts power was used.	
*Crazing Resistance	ASTM C554-93 (Reapproved 2006)	Shall not craze up to and including 3 cycles at 300°F (149°C). Note: May have cracked without crazing.	
*Resistance to Moisture Absorption	ASTM C373-88 (Reapproved 2006)	Report actual	
*Resistance to Corrosion (For metal components)	ASTM B117 (Modified)	No major corrosion or visual change after 24 hours in 1% salt spray (fog).	
*Transit Testing (By request only)	ISTA Procedure as Appropriate to Package	Packaged product shall be tested to applicable ISTA procedure and method, based on package configuration. Inspect package and product for damage upon completion of test. Report results.	
Labelling			
Parts Labeling	ITS-M0060	Shall match the actual content if present.	

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Use Labeling	ITS-M0060	Use/care instructions that are clear and understandable shall be provided in language appropriate to destination countries.											
Instructions	ITS-M0060	Shall provide an easy understandable instructions regarding assembly, use and maintenance.											
Verify Label claims	Actual Use	Must comply with all claims.											
For US Only													
One Time Use Products	F.P. & L. Act (16 CFR 500) OR NIST Uniform Laws and Regulations Handbook 130	Manufacturer, packer, or distributor's name & address (city, state & zip)											
† Fair Packaging and Labeling Act OR All Other Products		Product Identification											
† Uniform Packaging and Labeling Regulations		Net quantity of contents shall be expressed in terms of weight or mass, measure, numerical count, or combination so as to give accurate information to facilitate consumer comparison (U.S. and metric units).											
† Country of Origin Marking	19 CFR 134.11	Shall indicate country of origin legibly, permanently, and in comparable size and close proximity to any mention of country other than country in which the article was manufactured or produced. Must be visible at point of purchase.											
† Marking for Tableware items for the State of California	CA Health & Safety Code, section 108870	All tableware items distributed in the State of California with lead or cadmium intentionally added or which are unintentionally contaminated must be permanently and indelibly marked with the name, or if the item is too small, a registered trademark, of the manufacturer or importer.											
† Plastic Bag Warning Statement (If applicable)	Visual Check / Requirements Based on Various State Laws	<p>If plastic bags with a thickness less than 1 mil and an opening size ≥ 5" in diameter are present, the following warning statement shall be printed in a prominent place on each bag in English and appeared on both sides:</p> <p>WARNING: Keep this bag away from babies and children. Do not use in cribs, beds, carriages or playpens. The thin film may cling to nose and mouth and prevent breathing. This bag is not a toy.</p> <p>If the total length and width is > 40", the warning shall be repeated in 20-inch intervals. The font size shall adhere to:</p> <table border="1"> <thead> <tr> <th>Total Length and Width of Bag</th> <th>Font</th> </tr> </thead> <tbody> <tr> <td>60 inches or more</td> <td>at least 24 point</td> </tr> <tr> <td>40 inches to less than 60 inches</td> <td>at least 18 point</td> </tr> <tr> <td>25 inches to less than 40 inches</td> <td>at least 14 point</td> </tr> <tr> <td>less than 25 inches</td> <td>at least 10 point</td> </tr> </tbody> </table>	Total Length and Width of Bag	Font	60 inches or more	at least 24 point	40 inches to less than 60 inches	at least 18 point	25 inches to less than 40 inches	at least 14 point	less than 25 inches	at least 10 point	
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†Pre-packaged Product	Consumer Packaging and Labelling Act, R.S. 1985, c. C-38 and Regulations, C.R.C., c. 417	The net quantity declaration shall present on Principal Display Panel (PDP) in English and French, metric units. The numerical quantity shall be bold type with letter height based on the size of Principle Display Surface (X): <table border="1"> <thead> <tr> <th>Size of Principle Display Surface</th> <th>Minimum letter height</th> </tr> </thead> <tbody> <tr> <td>$X \leq 32 \text{ cm}^2$ (5 in²)</td> <td>1.6 mm (1/16 in)</td> </tr> <tr> <td>$32 \text{ cm}^2 < X \leq 258 \text{ cm}^2$ (40 in²)</td> <td>3.2 mm (1/8 in)</td> </tr> <tr> <td>$258 \text{ cm}^2 < X \leq 645 \text{ cm}^2$ (100 in²)</td> <td>6.4 mm (1/4 in)</td> </tr> <tr> <td>$645 \text{ cm}^2 < X \leq 25.8 \text{ dm}^2$ (400 in²)</td> <td>9.5 mm (3/8 in)</td> </tr> <tr> <td>25.8 dm^2 (400 in²) < X</td> <td>12.7 mm (1/2 in)</td> </tr> </tbody> </table>	Size of Principle Display Surface	Minimum letter height	$X \leq 32 \text{ cm}^2$ (5 in ²)	1.6 mm (1/16 in)	$32 \text{ cm}^2 < X \leq 258 \text{ cm}^2$ (40 in ²)	3.2 mm (1/8 in)	$258 \text{ cm}^2 < X \leq 645 \text{ cm}^2$ (100 in ²)	6.4 mm (1/4 in)	$645 \text{ cm}^2 < X \leq 25.8 \text{ dm}^2$ (400 in ²)	9.5 mm (3/8 in)	25.8 dm^2 (400 in ²) < X	12.7 mm (1/2 in)	
		Size of Principle Display Surface	Minimum letter height												
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All other information in the net quantity declaration (i.e. units of measurement statements, abbreviations, symbols, etc.) shall be shown in minimum 1.6 mm letter height.															
Product identification shall be shown on Principal Display Panel (PDP) in English and French, minimum 1.6 mm letter height.															
		Dealer's name and principal place of business (address) shall be shown on any part of label except bottom, English or French, minimum 1.6 mm letter height. For imported goods, the name and address of the dealer outside Canada or the name and address of Canadian dealers shall be preceded by "imported by" (" <i>importé par</i> ") or "imported for" (" <i>importé pour</i> "), unless a statement of geographic origin is located immediately adjacent to the name and address of a Canadian dealer, and shown with letter height at least as large as those used in the declaration of the Canadian dealer's principal place of business.													
The Language of Inscription (mandatory in Quebec)	The Charter of French Language, Title I, Chapter VII, Clause 51 & Regulations adopted under the Charter of French Language	Every inscription on the following shall be drafted in French, <ul style="list-style-type: none"> - product - product container or wrapping - document or object supplied with it (e.g. directions for use, warranty certificates) No inscription in another language may be given greater prominence than that in French. For exceptions, check the following webpage:- http://www.olf.gouv.qc.ca/english/regulations/reg_business.htm#div1													
†Country of Origin	Customs Tariff, Marking of Imported Goods Regulations, SOR/94-10	The country of origin marking of Non-NAFTA imported goods shall be present in English or French.													

Remark: Additional tests may be incurred subject to the final samples reviewed by Intertek.

If the order quantity > 2000pcs per year, 12 pieces of samples are requested for Leachable Pb & Cd for California Prop 65.

Key: *: Additional charge items

†: Mandatory Requirement

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Testing Charge & Sample Size & Turnaround Time

Basic Package Price (Listed Price)	USD 395 (in which USD 132 is not discountable) for one market; Additional USD 23 for both markets	
Sample Size for basic package	6 pieces (Additional samples may be required for tests with additional charge)	
Turnaround time	8 working days	
Additional charge (subject to client discount)		
		Additional sample size
a. CA Prop 65	On Quote	Subject to actual sample
b. Children's Products Supplemental - US	Refer to TYCP-00004-US	Refer to TYCP-00004-US
c. CPSIA Supplemental	Refer to TYCP-00001-US	Refer to TYCP-00001-US
d. Children's Products Supplemental - CN	Refer to TYCP-00004-CN	Refer to TYCP-00004-CN
e. Lead Content of Paints or Similar Surface Coating (US)	USD 31 per coating	0.5 grams of coating on finished product
f. Extractable Lead and Cadmium	USD 64 per result	6 pieces
g. Extractable Lead and Cadmium from Rim Decoration	USD 64 per result	6 pieces
h. Extractable Cadmium & Lead in tableware	USD 77 per result	6 pieces
i. Food Contact Materials - Plastic (21 CFR 170-189)	On Quote	Subject to actual sample
j. Toxic Elements in Packaging Components	USD 54 per result	0.5 grams per material
k. Total Lead in Surface Coating (CN)	USD 31 per coating	0.5 grams of coating on finished product
l. Leachable Lead and Cadmium	USD 65 per style	6 pieces
m. Leachable Lead and Cadmium (Lip & Rim)	USD 65 per style	6 pieces
n. Food-contact Plastics	On Quote	Subject to actual sample
o. Thermal Shock Endurance(EN 1183)	USD 256 per result	10 pieces
p. Dishwasher Safe (EN 12875-4)	USD 154 per result	4 pieces
q. Dishwasher Safe (ITS-M0001)	USD 95 per result	2 pieces
r. Handwash Safe	USD 101 per result	2 pieces
s. Impact Resistance (ASTM C368)	USD 256 per result	10 pieces
t. Craze Resistance (ASTM C554)	USD 256 per result	10 pieces
u. Resistance to Moisture Absorption (ASTM C373)	USD 192 per result	10 pieces
v. Resistance to Corrosion	USD 54 per result	2 pieces
w. Transit Testing	ISTA 1A: USD 179 ISTA 1B: USD 231	1 full carton with products
Remark: Price information is for reference only and based on our Hong Kong laboratory pricing. Please check with local laboratories to confirm exact pricing for your region.		

Revision History

Issue No.	Revision date	Changes	Prepared by	Approved by
1.0	05 Oct 2012	Draft for approval	Mondy Tung	Taylor (Emily) on 08 Jan 2013