

Product:	Glassware [Food-Contact use]		
Scope:	All types of glasswares for food-contacting use, such as Dinner plate, Bowl, Tumbler, Goblet, Stemware, etc.	Protocol No.	TYCP-02002-NA
		Version	1.0
		Issue Date	15 Jan 2013
		Prepared by	Intertek HK - TFH
		Page	1 of 7

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	Requirements / Limits
Supplemental		
For US Only		
†* CA Prop 65 (mandatory in state California, US)	Intertek Protocol	Consent Judgment of related court cases based on California Proposition 65.
†* Children Product Supplemental	TYCP-00004-US	Shall comply with all applicable requirements.
†* CPSIA Supplemental	TYCP-00001-US	Shall comply with all requirements in TYCP-00001-US.
For Canada Only		
†* Children Product Supplemental	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 Test		
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	FDA CPG 7117.06 + 7117.07 (Scope widened)	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	ASTM C927	If the cup/mug is decorated in the top 2 cm: Pb: 4.0 ppm Cd: 0.4 ppm
†* Food Contact Materials – Plastics and Polymeric Coatings which may have contact with food	FDA 21 CFR Parts 170 - 189 per Plastic Type	The plastic material used with food contact shall meet the FDA requirements as stated in CFR. The correct CFR section reference will be dependent on the identity of the polymer or other material.
* Food Grade Stainless Steel	With Reference to NSF/ANSI 51 / ITS-M0122	AISI 200, 300 and 400 series stainless steel are all acceptable for food use, so are other stainless steel grades with a minimum of 16 % chromium content. In the case of cutlery / blades and similar applications requiring a sharp edge, the chromium content can be lower than 16 % if they are tempered or hardened by an appropriate post-heat treatment process. (In lieu of testing, a passing test report may be submitted for review if dated within one year)
†* Toxic Elements in Packaging Components	TPCH	The sum of Cadmium, Hexavalent Chromium, Lead and Mercury in package or packaging component shall be less than 100ppm by weight.
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		Issue Date	15 Jan 2013
		Prepared by	Intertek HK - TFH
		Page	2 of 7

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* Total Lead in Surface Coating	Canada Consumer Product Safety Act, Surface Coating Materials Regulations, Section 7.2 (Scope Widened)	Shall not exceed 0.009% (90ppm) total lead.
†* Leachable Lead and Cadmium (Ceramic & Glassware)	Canada Consumer Product Safety Act, Glazed Ceramics and Glassware Regulations Section 4	Shall not exceed the following leachable limits:
†* Leachable Lead and Cadmium (Lip & Rim)	Canada Consumer Product Safety Act, Glazed Ceramics and Glassware Regulations Section 5	Drinking vessels with distinctive exterior decorative pattern within 20 mm of the rim shall not exceed the following limits: Lead: 4mg/L Cadmium: 0.4mg/L
†* 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.)
*† Lead Content of Consumer Products Contacting with Mouth	Canada Consumer Product Safety Act, Consumer Products Containing Lead (contact with mouth) Regulations	The following products shall not contain more than 90 ppm total lead (90 mg of lead per per kilogram of product): (1) products, other than kitchen utensils , whose normal pattern of use requires that they be brought to the user's mouth ; and (2) products in respect of which it is reasonably foreseeable, based on their nature, that they would be used by children under 3 years of age in learning or play.
* Food Grade Stainless Steel	With Reference to NSF/ANSI 51 / ITS-M0122	AISI 200, 300 and 400 series stainless steel are all acceptable for food use, so are other stainless steel grades with a minimum of 16 % chromium content. In the case of cutlery / blades and similar applications requiring a sharp edge, the chromium content can be lower than 16 % if they are tempered or hardened by an appropriate post-heat treatment process. (In lieu of testing, a passing test report may be submitted for review if dated within one year)
Food-contact Materials Other Than Plastics	Food and Drug Regulations Health Canada	It is the vendor's responsibility to determine whether a product is in compliance with Division 23, an opinion may be requested from Health Canada's Consumer Product Safety Bureau.
Physical Properties		
Overall Dimensions	ITS-M0059	Report dimensions, shall meet the label claims (If applicable)
Overall Weight	ITS-M0059	Report weight, shall meet the label claims (If applicable)

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		Version	1.0
		Issue Date	15 Jan 2013
		Prepared by	Intertek HK - TFH
		Page	3 of 7

Attribute	Citation	Requirements / Limits
Capacity	ITS-M0059	Report capacity, shall meet the label claims (If applicable)
Material Type	Visual check	Report actual, shall meet label claims (If applicable)
Construction & Workmanship		
Sharp Points / Edges	16 CFR 1500.48/1500.49 (Scope widened)	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.
Top/Lid Fitting Ability (If applicable)	Visual Check	Shall provide a secure but not locking fit.
Performance Test		
Functionality	ITS-M0061	Shall function as intended as received.
Leakage	ITS-M0061	Shall have no visible stain mark on the paper after filling the container with ink-stained water up to its maximum capacity and standing on a white blotted paper for 24hr.
Tilt Resistance / Stability (for free-standing Items)	ITS-M0015	Shall remain stable at 10° incline without tipping.
Integrity of Handle Strength (Only for items with lifting handles)	With reference to EN ISO 8442-8 Clause 6.2	No breakage at handle.
* Dishwasher Safe	ITS-M0001	Shall have no crack or color fading after 10 cycles normal wash with domestic detergent
* Handwash Safe (For items having the equivalent claims such as "Handwash only" OR "Not dishwasher safe")	ITS-M0003	Shall be no adverse effect after 10 handwash cycles using domestic detergent rubbed with damp cloth gently with warm water (140° F / 60 ° C).
* Microwave Safe (If claimed)	ITS-M0002	Fill with 80% of its gross capacity with water; Heat up in microwave oven set at 1 kw for 3 minutes; Repeat another 2 cycles
* Thermal Shock Endurance	With reference to EN 1183 Test Method B & PAS 54 Clause 4.1.4	For cups, mugs, teapots and coffee pots Temperature differential ³ 194° F (90 ° C) For ovenware Temperature differential ³ 302 ° F (150 ° C) Note: Temperature of cold water bath was set at 68 ° F (20 ° C)
* Annealing performance	ASTM F2179 Section 4.1.1 & ASTM C148 (Modified)	Shall have a max real temper number of 4. Note: Sample size modified to 3 pieces instead of 50 pieces as per ASTM C224.
* Resistance to Corrosion (For metal components)	ASTM B117 (Modified)	Withstand 24 hours in 1% salt spray (fog) with no major corrosion or visual change. Modification = 1% salt (fog) spray.
* 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
Labeling Requirement		

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		Issue Date	15 Jan 2013
		Prepared by	Intertek HK - TFH
		Page	4 of 7

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† One Time Use Products Fair Packaging and Labeling Act OR All Other Products Uniform Packaging and Labeling Regulations	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) Product Identification 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	If plastic bags with a thickness less than 1 mil and an opening size $\geq 5"$ 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: 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. If the total length and width is $> 40"$, the warning shall be repeated in 20-inch intervals. The font size shall adhere to:										
		<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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		Version	1.0
		Issue Date	15 Jan 2013
		Prepared by	Intertek HK - TFH
		Page	5 of 7

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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	<p>The net quantity declaration shall present on Principal Display Panel (PDP) in English and French, metric units.</p> <p>The numerical quantity shall be bold type with letter height based on the size of Principal Display Surface (X):</p> <table border="1"> <thead> <tr> <th>Size of PDS</th> <th>Minimum letter height</th> </tr> </thead> <tbody> <tr> <td>$X \leq 32 \text{ cm}^2 (5 \text{ in}^2)$</td> <td>1.6 mm (1/16 in)</td> </tr> <tr> <td>$32 \text{ cm}^2 < X \leq 258 \text{ cm}^2 (40 \text{ in}^2)$</td> <td>3.2 mm (1/8 in)</td> </tr> <tr> <td>$258 \text{ cm}^2 < X \leq 645 \text{ cm}^2 (100 \text{ in}^2)$</td> <td>6.4 mm (1/4 in)</td> </tr> <tr> <td>$645 \text{ cm}^2 < X \leq 25.8 \text{ dm}^2 (400 \text{ in}^2)$</td> <td>9.5 mm (3/8 in)</td> </tr> <tr> <td>$25.8 \text{ dm}^2 (400 \text{ in}^2) < X$</td> <td>12.7 mm (1/2 in)</td> </tr> </tbody> </table> <p>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.</p> <p>Product identification shall be shown on Principal Display Panel (PDP) in English and French, minimum 1.6 mm letter height.</p> <p>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.</p> <p>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" ("importé par") or "imported for" ("importé pour"), 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.</p>	Size of PDS	Minimum letter height	$X \leq 32 \text{ cm}^2 (5 \text{ in}^2)$	1.6 mm (1/16 in)	$32 \text{ cm}^2 < X \leq 258 \text{ cm}^2 (40 \text{ in}^2)$	3.2 mm (1/8 in)	$258 \text{ cm}^2 < X \leq 645 \text{ cm}^2 (100 \text{ in}^2)$	6.4 mm (1/4 in)	$645 \text{ cm}^2 < X \leq 25.8 \text{ dm}^2 (400 \text{ in}^2)$	9.5 mm (3/8 in)	$25.8 \text{ dm}^2 (400 \text{ in}^2) < X$	12.7 mm (1/2 in)
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† 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	<p>Every inscription on the following shall be drafted in French,</p> <ul style="list-style-type: none"> - product - product container or wrapping - document or object supplied with it (e.g. directions for use, warranty certificates) <p>No inscription in another language may be given greater prominence than that in French.</p> <p>For exceptions, check the following webpage: http://www.olf.gouv.qc.ca/english/regulations/reg_business.htm#div1 <i>Note: Vendor shall be responsible for the accuracy of information contained.</i></p>												

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		Prepared by	Intertek HK - TFH
		Page	6 of 7

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† Country of Origin	Canada Customs Tariff, Marking of Imported Goods Regulations, SOR-94-10	For goods imported from non-NAFTA countries, the marking should appear on the individual article. In addition, if point of sale packaging conceals the marking on the product, then the packaging should also be marked. The marking shall consist of: -The name and address of a Canadian dealer preceded by the words "imported by" ("importe par") or "imported for" ("importe pour"); or -The statement of geographic origin located immediately adjacent to the name and address of a Canadian dealer; or -The name and address of the dealer outside Canada The type height of the name of the manufacturer or distributor must be a minimum 1.6 mm as measured with reference to the lower case "o" English or French.
for both US and Canada		
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 be legible and easy to understand; instructions shall be consistent with sample performance.
Parts Labeling	ITS-M0060	Shall match the actual content if present.
Verify Label Claims	ITS-M0060	Shall comply with all claims.

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: † : Mandatory Requirement

* : Additional charge items

Testing Charge & Sample Size & Turnaround Time

Item	Price	Sample Size	Turnaround Time
Basic Package Price (Listed Price)	USD 120 (in which USD 45 is not discountable) for one market; Additional USD 23 for both markets	4 pieces	7 working days

Additional Charge (Subject to client discount, except NET)

Item	Price	Sample Size	Turnaround Time
Protocol of CA Prop 65	On Quote	Subject to actual sample	
Children Product Supplemental - US	Refer to TYCP-00004-US	Refer to TYCP-00004-US	
CPSIA Supplemental	Refer to TYCP-00001-US	Refer to TYCP-00001-US	
Children Product Supplemental - CN	Refer to TYCP-00004-CN	Refer to TYCP-00004-CN	
Lead Content of Paints or Similar Surface Coating - US	USD 31 per result	0.5 grams of coating on finished product	
Extractable Cadmium & Lead from Interior - US	USD 65 per result	6 pieces	
Extracted Lead and Cadmium from Rim	USD 65 per style	6 pieces	

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		Prepared by	Intertek HK - TFH
		Page	7 of 7

Decoration - US			
Food Contact Materials – Plastics and Polymeric Coatings - US	On Quote	Subject to actual sample	
Food Grade Stainless Steel - US	On Quote	Subject to actual sample	
Toxic Elements in Packaging Components - US	USD 54 per result	0.5 grams	
Total Lead in Surface Coating - CN	USD 31 per result	0.5 grams of coating on finished product	
Leachable Lead and Cadmium (Ceramic, glassware & drinking vessels) - CN	USD 65 per style	6 pieces	
Leachable Lead and Cadmium (Lip & Rim) - CN	USD 65 per style	6 pieces	
Food-contact Plastics (Division 23 Food and Drug Regulations) - CN	On Quote	Subject to actual sample	
Lead Content of Consumer Products Contacting with Mouth - CN	USD 31 per result	0.5 grams	
Food Grade Stainless Steel - CN	On Quote	Subject to actual sample	
Dishwasher Safe	USD 95 per result	2 pieces	
Handwash Safe	USD 101 per result	2 pieces	
Microwave Safe	USD 46 per result	2 pieces	
Thermal Shock Endurance	USD 256 per result	10 pieces	
Annealing performance – ASTM C148	USD 256	3 pieces of container	
Resistance to Corrosion	USD 54 per result	2 pieces	
Transit Testing (ISTA 1A)	USD 179 per carton	1 full carton with products	
Transit Testing (ISTA 1B)	USD 231 per carton	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	25 Sep, 2012	Draft for Approval	Mondy Tung	Taylor (Emily) on 08 Jan 2013