

TEST SPECIFICATION

Product:	Cookware		
Scope:	Applicable to cookwares made of ceramics and/or Metal with / without non-stick coating; and includes those claimed to be ovenwares / oven safe. Excludes bakewares.	Protocol No.	TYCP-02003.1-US
		Version	1.0
		Issue Date	Oct 14, 2011
		Prepared by	Intertek HK - TFH
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Instructions to Vendors:

Dear Valued Vendor:

Product safety is a top priority at Taymark. We, with the assistance of Intertek, a CPSC-accredited third-party testing partner or lab, have identified the various rules and regulations as well as the necessary test requirements that we need to meet in our partnership to sell products in the United States. This has been assembled into our required Test Protocol. Each product that is supplied to us must comply with this Test Protocol and any required associated test protocol(s) identified within it.

You are required by the US Law to verify the products you provide to Taymark (or any other customer marketing to children in the USA) meet the required safety standards. Likewise, Taymark is required by US Law to assure that we have documentation to confirm that you have verified that your products meet the applicable safety standards. Once you have verified that the product(s) you have supplied to us conforms to the corresponding Test Protocol(s), and the testing was conducted within the past twelve (12) months, we ask that the appropriate representative from your company provide Taymark with the proper General Certificate of Conformity ("GCC") and the corresponding documentation that you used to support the GCC, including, where applicable and required, the CPSC-accredited third-party test data. For an example of an acceptable GCC, please go to <http://www.cpsc.gov/about/cpsia/faq/elecfaq.pdf>.

Key

† : Any element on the attached form with the following symbol ("†") is a Mandatory Requirement to which the product(s) or components of product(s) you supply to Taymark must conform. You must perform the associated test(s) and provide Taymark with the test data to support the fact that the test(s) was (were) conducted and that the product(s) or components of product(s) meets the described requirements. You are responsible for conducting the mandatory testing, and you are responsible for any expenses incurred as a result of conducting the test(s) (including, without limitation, the costs and expenses associated with providing any samples, testing, reporting, and preparing the General Certificate of Conformity).

: The symbol ("") on the attached form indicates that additional charges may apply. Taymark's preferred Accredited Third-Party Testing Facility is Intertek. If you choose to use Intertek to conduct the mandatory testing, please reference Taymark and Taylor Corporation when submitting your requests for testing to Intertek as you may be able to take advantage of Taymark and Taylor Corporation's volume discount. You may contact Intertek for a price quote and any additional information they might need in order to conduct the required testing.

Additional Accredited Third-Party Testing facilities can be found at <http://www.cpsc.gov/cgi-bin/labsearch/>.

Note:

Where there is no applicable US standard, Intertek has chosen the most relevant International Standard to assess the product safety and performance. For undated references, the latest edition of the referenced document (including any amendments) applies.

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Attribute	Test Method / Standard	Requirement / Limit	Result
Supplemental Protocol(s)			
*†CA Prop 65 (mandatory in state California, US)	Intertek Protocol	Consent Judgment of related court cases based on California Proposition 65.	
<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			
* 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).	
* Food Contact Requirement	FDA Regulation 21CFR Part 177-199	Must meet the requirement	
†* 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.	
*† Extractable Lead & Cadmium – Silver-plated	FDA CPG 7117.05 & 7117.06	Cd: ≤ 0.25 ppm (Lg. Hollowware/Pitchers) ≤ 0.5 ppm (Sm. Hollowware/Cups/Mugs) ≤ 0.5 ppm (Flatware and other non-filled products) Pb: < 7.0 ppm for adult < 0.5 ppm for children	
* Extractable Cadmium & Lead from Interior of Product for ceramics (If applicable)	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)	

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* 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	Shall comply with TPCH in those states with legislation. Total concentration of Pb, Cd, Hg and hexavalent Cr \leq 100 ppm.	
Physical Characteristic			
Overall Dimensions	ITS-M0059	Report overall dimensions; shall meet label claims (if applicable).	
Overall Capacity	ITS-M0059	Report overall capacity; shall meet label claims (if applicable).	
Wall Thickness (Stainless steel only)	ITS-M0059	Report wall thickness; shall meet the claimed value.	
Dimension – Inner diameter	ITS-M0059	Report inner diameter; shall meet label claims (if applicable).	
Weight	ITS-M0059	Report weight; shall meet label claims (if applicable).	
Joint	ITS-M0059	No Gap In Excess Of 0.012 Inches (0.3mm)	
*Plastic Material Identification (For plastics handles)	FTIR	Shall meet label claims (if applicable).	
Parts Inventory	ITS-M0059	Shall meet label claims.	
Material Type	ITS-M0060	As claimed or observed	
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, 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	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.	
Performance Test			
Stability	ITS-M0015	Shall remain stable at 10° incline without tipping at empty state. Notes: this is applicable for free standing items (if applicable).	

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*Dishwasher Safe (if claimed)	ITS-M0001	Dishwasher with detergent for 10 cycles – no color change or adverse effects.	
Handwash Safe (if not claimed to be dishwasher safe)	ITS-M0003	Shall exhibit no exterior surface degradation after hand washed 10 times using a sponge & liquid hand dishwashing detergent, followed by a rinse of tap water.	
* Moisture Content (Wooden Component, if any)	Oven Dry Method	Shall be within 8-12%.	
*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.	
Temperature of Grip While Boiling Water	ITS-M0061	Temperature of handle shall be less than 190°F unless handle warning is provided.	
*Thermal Shock Endurance for Lid (For glass lid)	DD CEN/TS 12983-2:2005 Clause 7.2	No cracking, crazing or chipping at 257°F (125°C)	
*Oven Safety (If claimed to be used in oven)	ITS-M0005	No visible damage (discoloration is acceptable) after 1 hour in 500°F (for metallic articles) or 350°F (non-metallic articles) oven.	
Handle Strength (For pots and pans)	CMA Standards Manual, Clause 3.3.1 & 3.3.2 (Modified)	<p><u>For articles with single stick handle</u> Shall withstand 350°F / 40 mins, then remove from the oven and support a weight (placed in the center of the pan) equal to 8.8lb or twice the weight of the water capacity (whichever is greater), plus the weight of any lid, for 1 minute.</p> <p><u>For articles with side handle assemblies & stick handles with helper handles</u> Shall withstand 350°F / 40 mins while supporting a weight (placed in the center of the pan) equal to 2 times the weight of water capacity, plus the weight of any lid, for 1 minute.</p>	
Handle Strength (For Lid)	CMA Standards Manual, Clause 3.3.8	The knob assemblies shall withstand a maximum of 350°F, or recommended use temperature without functional failure while supporting the cover AND a weight equal to the cover.	
Torque Resistance	CMA Standards Manual, Clause 3.3.3	Shall be no deflection of greater than 10° or damage to the handle, its ferrule or fixing system.	
Boil Dry Test	CMA Standards Manual, Clause 7.9	<p>Place the empty pan on an appropriately sized electric burner with high setting for ten minutes or five minutes for pans of a 1.5 quart capacity or smaller.</p> <p>Upon removal from the burner there should be no separation of the base from the body of the pan and no molten metal escaping from the body / base juncture.</p>	

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Handle Fatigue	CMA Standards Manual, Clause 3.3.5	No distortion is allowed unless it is less than 5% of the handle length measured at the end of the handle which does not affect its safety or function, after completion of 15,000 test cycles.	
*Resistance to Salt and Acid Test (For articles with non-stick coating)	CMA Standards Manual Clause 21.4.5	Total blistered area shall be less than ½ square inch.	
*Life Cycle Endurance Test (For articles with non-stick coating)	CMA Standards Manual Clause 21.6.3	Shall leave no portion greater than 10% of the surface area of the pancake still adhering to the test surface.	
*Thermal Shock Resistance for Porcelain - Enameled utensils	CMA Standards Manual Clause 17.1.5/ ASTM C385	Any multiple-coated porcelain-enameled utensil that can be filled with water to a depth of 1" shall have an average rating of 3 cycles; Any single-coated porcelain enamel utensil that can be filled with water to a depth of 1" shall have an average rating of 7 cycles	
*Impact Resistance	ISO 4532	The exterior enamel shall resist a minimum impact of 20 N, showing no damage greater than 2 mm after 24 h.	
Labeling Requirement			
†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. Shall be visible at point of purchase.	
Parts Labeling	Visual Check	Shall match the actual content if present.	
Use Labeling	ITS-M0060	Use/care instructions that are clear and understandable shall be provided in language appropriate to destination countries.	
Verify Label Claims	ITS-M0060	Shall comply with all claims.	
Instructions	ITS-M0060	Shall include assembly, use, maintenance, and safety information as required with no errors or spelling mistakes	

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

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