

TEST SPECIFICATION

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|----------|--|--------------|-------------------|
| Product: | Metalwares [Food contact] | | |
| Scope: | Food contact Metalwares, such as stainless steel kitchen gadgets, metal containers and metallic cookware & bakeware etc. | Protocol No. | ITS-02041-US |
| | | Version | 1.0 |
| | | Issue Date | Sep 15, 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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| Supplemental Protocol(s) | | | |
| *†CA Prop 65 (mandatory in state California, US) | Intertek Protocol | Consent Judgment of related court cases based on California Proposition 65. See http://oehha.ca.gov/prop65.html | |
| *† Children's Products (non-toy) | ITS-16026-US | Shall review against the Children's Products Supplemental and shall comply the applicable requirements. See Children's Products (non-toy) protocol posted at www.taymarkinc.com | |
| <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 | |
| *† 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 | |
| * Lead (Pewter Alloys) | FDA Food Code: Chapter 4 | 500 ppm total weight | |
| * Lead (Solder and Flux) | FDA Food Code: Chapter 4 | 2000 ppm total weight | |

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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) | |
| *Soluble Heavy Metals | EN 14350-2:2004 (Scope Widened) | Shall meet the requirements of Sb (≤ 15 ppm), As (≤ 10 ppm), Ba (≤ 100 ppm), Cd (≤ 20 ppm), Cr (≤ 10 ppm), Pb (≤ 25 ppm), Hg (≤ 10 ppm), Se (≤ 100 ppm). | |
| * Bisphenol A content (if applicable) | Various state laws (e.g. CT, MN, Chicago City (IL), NY, MA, ME, MD, VT, WI) / High Performance Liquid Chromatography | The following products shall not contain any detectable levels of Bisphenol-A (BPA): <ul style="list-style-type: none"> • Infant formula/ baby food plastic container, jar or can • All reusable or disposable food or beverage containers including lids and cups • Baby bottle liners • Toys (for aged 12 and younger, Maine) • Child Care Articles (for aged 3 and younger, Maine) • Pacifiers (or other sucking and teething products) • Straws <p>Actual testing will be conducted on All Plastics materials only. Vendors shall be responsible for the compliance of all other materials.</p> <p>This is a client requirement to cover various states laws and proposed legislations, before the date of enact.</p> | |
| * 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 ≤ 100 ppm. | |
| Physical Characteristic | | | |

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| 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 | FTIR | Shall meet label claims (if applicable). | |
| *Medical Grade Silicone (if applicable and claimed) | Document Review | Vendor shall provide test reports or suitable certificates with declaration letter confirming that the silicone is medical grade as defined by Dow Corning and is based on widely accepted industry practice (USP Class 5 and other tests). (Document is valid for 1 year). | |
| 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. | |
| *Insulator (for bottles with insulation claims) | Visual Check | A dissected bottle is inspected for filling material. If a dissected bottle can be provided, the charge for cutting the shell will be waived. | |
| Performance Test | | | |
| - (a) General performance for all metallic food contact articles | | | |
| Functionality | ITS-M0061 | Shall function as intended as received. | |
| Tilt Resistance / Stability | ITS-M0015 | Shall remain stable at 10° incline without tipping after fully filled with water. Notes: this is applicable for free standing items (if applicable). | |
| Firmness Of Handle Attachment | ITS-M0024 | No detachment Condition: Tension of 20 lbs for 10 sec | |

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| *Durability and Fitness of Accessories | Actual Use | Shall withstand repeat detaching / attaching and/or opening / closing of the accessories 100 times. e.g. assemble / disassemble the lid with the main body | |
| *Freezer Safe (if applicable) | Actual Use | No adverse effects when 80 % filled with water and left frozen for 24 h. | |
| Effect of Extreme Temperature and Humidity | ITS-M0007 | 16 h @ 0° F (-18° C) & 8 h @ 120° F (49° C) / 95% RH with no failure or visual change. | |
| *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. | |
| *Corrosion Resistance for metal components | ASTM B117 (Modified) | Shall withstand 1% salt spray (fog) for 24 h with no major corrosion or visual change. | |
| * 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. | |
| - (b) specific for cookware / bakeware / gadgets | | | |
| Impact Resistance (for kitchenware items with plastic handles) | ITS-M0053 | No loosening in handle or other visible damage on item <i>Drop in a vertical position with handle pointing downward from a height 1.2m (3.94 ft) onto a concrete floor 5 times.</i> | |
| 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 | ITS-M0005 | No visible damage (discoloration is acceptable) after 1 hour in 500°F (for metallic articles) or 350°F (non-metallic articles) oven. | |

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| Handle Strength (For pots and pans) | CMA Standards Manual, Clause 3.3.1 & 3.3.2 (Modified) | <p>For articles with single stick handle 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>For articles with side handle assemblies & stick handles with helper handles 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> | |
| *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. | |
| *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. | |
| - (c) specific for non-cooking purpose food contact metalwares such as containers and dinnerwares | | | |
| Impact Resistance | ASTM F963-08 Section 8.7.1 (Scope Widened) / ITS-M0053 | <p>Shall withstand 3 drops in various orientations from 3.3 ft (1 m) height onto vinyl-clad cement floor after fully filled with water.</p> <p>Note: for metallic containers and bottles.</p> | |

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| Detachable Small Parts | 16 CFR 1501 | Any small parts (like bottle caps, spouts) which may be a choking hazard for children shall not be easily detached, a force of less than 20 lbf (90 N) is suggested. Pull to failure and report actual. | |
| Leakage (if claimed to be leak free) | Visual Check | The item shall be air-tight. No leaking when caps are tightened, with the 80% water-filled bottle shaken in various orientation and then placed upside down on tissue paper for 1 h. | |
| *Insulation Property (for bottles with insulation claims) | EN 12546-1:2000 Cl. 3.4.1, 5.4 | Report the measured temperature and compared with table 3 of the standard. | |
| 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 | |
| Bisphenol-A Content of Food or Beverage Container for Children Age 3 Years or Younger | BPA-Free Kids Act of 2009 (Proposed) | Food or beverage container containing no Bisphenol-A shall bear a statement "BPA-Free Product" on the container or its packaging. Refer to Chemical Analysis section for details. | |

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