

Product:	Candles		
Scope:	Dinner candles (or taper), pillar candles, tealights, Novelty sculptured candles, wax filled container candles or floating, birthday candles.	Protocol No.	TYCP-01001-NA
		Version	1.0
		Issue Date	15 Jan 2013
		Prepared by	Intertek HK - TFH
		Page	1 of 8

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 Protocol(s)			
*†CA Prop 65 (mandatory in state California)	Intertek Protocol	Consent Judgment of related court case 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			
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).	
*†Lead in Metal-Cored Wicks	16 CFR 1500.17(a)(13)	Must be less than 0.06% (600ppm) total lead.	
*†Flashpoint of Fragrance Liquid on Raw Materials (If Applicable) (Gel Candles Only)	16 CFR 1500.43a / 16 CFR 1500.3(c)(6)	Flashpoint shall be greater than 150° F.	
*Polarity of Fragrance on Raw Materials (Gel Candles Only)	Combine fragrance with mineral oil: 1) 25% fragrance and 75% mineral oil; 2) 75% fragrance and 25% mineral oil.	Report. Fragrance shall be non-polar (100% soluble with no separation) at the two ratios of fragrance and mineral oil.	
*†Paraffin Content Only for candles imported from China.	US Customs Laboratory Methods USCL 34-07	Only for candles imported from China. Non-novelty candles must not contain paraffin wax .	
*Citronella Content Only for citronella candles that are imported.	TP-044	Report the percentage of citronella in the candle. Must meet the customs definition of ≥ 3% pesticide to be exempt from the dumping tariff.	
*† Food Contact Materials (If applicable, e.g. plastic used in candle holder for birthday candles)	FDA, 21, CFR Parts 175 & 177 per Plastic Type	Test report or suitable certificate with declaration letter shall be provided to confirm that the plastic material used with food contact meet the FDA requirements as stated in the CFR. The correct CFR section reference will be dependent on the identity of the polymer or other material (Document is valid for 1 years). Actual test will be required with additional charge if the above documents cannot be provided.	
*†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.	
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*Total Lead in Surface Coating	Canada Consumer Product Safety Act, Surface Coating Materials Regulations (Scope widened)	Shall not exceed 0.009% (90ppm) total lead.			
*†Lead in Metal-Cored Wicks	With reference to 16 CFR 1500.17(a)(13)	Must be less than 0.06% (600ppm) total lead.			
*†Flashpoint of Fragrance Liquid on Raw Materials (If Applicable) (Gel Candles Only)	With reference to 16 CFR 1500.43a / 16 CFR 1500.3(c)(6)	Flashpoint shall be greater than 150° F.			
Physical Characteristics					
Dimensions of Candle (L x W x H)	ITS-M0059	Report overall dimensions; shall meet label claims (if applicable).			
Weight of Candle	ITS-M0059	Report overall weight; shall meet label claims (if applicable).			
Wick Length	ITS-M0059	Report overall length; shall meet label claims (if applicable).			
Fragrance	Sensory	Must comply with claims			
Construction & Workmanship					
Sharp Points / Edges	16 CFR 1500.48 / 1500.49 (Modified)	Shall have no sharp points/edges, other than those required for function.			
Workmanship	Visual check	Free from bubbles, foreign materials, cracks; Shall not wobble on a flat surface			
Terracotta container	Visual check	Shall be glazed at inner surface without seepage			
Performance Test					
Flame Height	ASTM F2417-11 Section 4.1 (Mod.)	Flame height shall not exceed the following limits when measured from the base of the flame to the tip of the flame: Tealight : max 1" Pillar : max 2.5" Results for outdoor and other exempted candles shall be reported as data only.			
Secondary Ignition	ASTM F2417-11 Section 4.2	No secondary ignition shall occur during the test (except Easter, Paschal, and sacramental candles designed to be used during the service at the place of worship).			
End of Useful Life	ASTM F2417-11 Section 4.3	Shall not break / crack the container, exhibit excessive flame height, or exhibit secondary ignition prior to end of useful life. The flame of freestanding candles must not impinge on the supporting surface.			
Stability (If Applicable)	ASTM F2417-11 Section 4.4	Candles that do not require a holder to keep them upright, shall not tip over when placed on a minimum 10° incline. Asymmetrical items - Rotation around vertical axis is required.			
Flammability - Plastic containers (including Tea light cups)	ASTM F2417-11 section 4.5	Total burn time ≤ 300 seconds and individual burn time ≤ 30 seconds.			
Surface Temperature (For wax filled container)	Intertek Recommendation		Metal	Ceramic/Glass	Plastics
		Part intended to be held	55°C	65°C	75°C
		Parts likely to be touched	105°C	120°C	125°C
		Base	110°C	125°C	135°C




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Burning Time	Standard Measurement	As approval sample – Must comply with claims (Report claimed & actual length of burn time in hours)	
Burning characteristics/ abnormalities	Adopted ASTM F2417-11 Section 5.2	Report any abnormalities (e.g., glitter popping, small rocks exploding) during burn performance testing that may result in property damage and/or be a potential hazard. Wick shall not offset from the centre.	
Soot Build Up	Visual Check	No visually excessive build up of residue on container walls.	
*Sooting Behaviour (Test 1 piece)	ASTM F2326	Report actual	
Spillage	Intertek Recommendation	Shall not exhibit the spillage : - Taper : No dripped wax that reach the bottom of the holder - Pillar & others : Max 10% - Novelty candles : No limit	
Afterglow	EN 15493, Clause 4.5	The wick shall not continue to glow or smoke for more than 20 s after extinguishing.	
*Thermal shock (For glass container)	ASTM F2179, Clause 4.2 (Modified)	Shall not crack or break at a thermal shock temperature differential of 50°C. Note : Sample size modified to 3 pieces instead of 50 pieces as per ASTM C224.	
*Annealing performance (For glass container)	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.	
	ASTM F2179 Section 4.1.2	No cracking or fractures. Note: Sample size modified to 3 pieces instead of 50 pieces as per ASTM C224.	
Flammability - Abuse Test For Container Interior (For filled containers and those having the potential risk of coming in contact with the flame)	Sustained Direct Flame (container inclined 45°) In-house Method	Internal surface of candle-holder only - the flame impingement should be 5 minutes. Shall not crack or break exposing a sharp point/edge or expose flame to the outside of the holder. Holder damage (non-hazardous) is acceptable.	
*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.	
For Canada Only			
*†Spontaneous re-ignition	CCPSA Candles Regulations, Section 2	Candle shall not re-ignite spontaneously after being extinguished.	
Labelling Requirement			
Parts Labelling	ITS-M0060	Shall match the actual content if present.	
Use Labelling	ITS-M0060	Use/care instructions that are clear and understandable shall be provided in language appropriate to destination countries.	

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Use and Care Instructions	ITS-M0060	Shall be clear, concise, and understandable and - Provide step-by-step method of use. - Be provided in language appropriate to destination countries. Provide a copy of the instructions in the report.													
Verify Label Claims	Actual Use	Shall comply with all claims.													
For US Only															
†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.													
†Citronella Candles with Claims	EPA Registration / FIFRA 25 (b) Exemption	If a citronella candle makes a claim (Such as control or mitigate disease vectors –e.g., Lyme's disease or West Nile Virus) it must be EPA registered (The label must include a EPA registration number). If the candle is not registered it must comply with the citronella candle labeling exemptions of 40 CFR 152. The vendor must provide proof of EPA registration. Lab will review documentation.													
†Citronella Candle Exemption Eligibility	40 CFR 152	A citronella candle may be exempt from EPA registration if: 1. It does not bear a claim to control or mitigate disease vectors 2. The active ingredients are listed in the FIFRA 25(f)(1) list 3. The product contains inert ingredients from the approved FIFRA list (Paraffin) (colorants are not listed) 4. It must have labeling identifying the name and percentage of each active and name of each inert ingredient													
†Candles - FPLA	16 CFR 501.7	Tapered candles and irregularly shaped decorative candles, which are either hand dipped or molded, do not need to be labeled with the diameter of the candle. The candles must be labeled with count and length or height in inches to meet the requirements of FPLA.													
		<table border="1"> <thead> <tr> <th>CANDLE</th> <th>REQUIREMENT</th> </tr> </thead> <tbody> <tr> <td>Filled / Tea light</td> <td>Wax weight only</td> </tr> <tr> <td>Taper / Irregular</td> <td>Height only</td> </tr> <tr> <td>Votive / Circular</td> <td>Height x Diameter</td> </tr> <tr> <td>Votive / Irregular</td> <td>Height only</td> </tr> <tr> <td>Pillar / Circular</td> <td>Height x Diameter</td> </tr> <tr> <td>Pillar / Square</td> <td>Height x Width</td> </tr> </tbody> </table>	CANDLE	REQUIREMENT	Filled / Tea light	Wax weight only	Taper / Irregular	Height only	Votive / Circular	Height x Diameter	Votive / Irregular	Height only	Pillar / Circular	Height x Diameter	Pillar / Square
CANDLE	REQUIREMENT														
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		(US Standard & Metric for all candles)													

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Cautionary Labeling	ASTM F2058-07	<p>A label conforming to ASTM F2058-07 must be provided in text-only option or text-and-pictogram option. The symbol/ information shall be given on the label as follows:</p> <p><u>Text-Only Option</u></p> <ul style="list-style-type: none"> - Safety alert symbol:  - Signal word: WARNING - The statements: "Burn within sight. Keep away from things that can catch fire. Keep away from children." or their practical equivalents. <p><u>Text-and-Pictogram Option</u></p> <ul style="list-style-type: none"> - Safety alert symbol:  - Pictogram  <ul style="list-style-type: none"> - The statements: "Burn within sight. Keep away from things that can catch fire. Keep away from children." or their practical equivalents. 											
Additional Cautionary Labeling	Visual check	<p>Shall provide additional safety information. For details, please refer to the following link for reference: http://www.candles.org/safety_rules.html</p>											
†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 $\geq 5"$ 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:</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	<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 Principle Display Surface (X):</p> <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> <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" (<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.</p>	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)	
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25.8 dm^2 (400 in ²) < X	12.7 mm (1/2 in)														
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.html#div1</p>													
†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.													

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Safety Labelling Requirements	Canadian Proposed Candle Regulation, Section 3-5	<p>The following warning or its equivalent must be displayed in both official languages at the point of sale, with the signal word “WARNING” and “AVERTISSEMENT” in bold-faced and upper-case letters :</p> <p>WARNING: To prevent fire, do not leave burning candles unattended. Do not place burning candles on or near anything that can catch fire. Keep burning candles out of reach of children.</p> <p>AVERTISSEMENT: Pour prévenir les incendies, ne pas laisser de bougie allumée sans surveillance. Ne pas placer de bougie allumée sur une chose susceptible de prendre feu ou à proximité. Garder les bougies allumées hors de la portée des enfants.</p> <p>The minimum type height is based on the area of the display space:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th><u>Area of Display Space</u></th> <th><u>Min. Type Height</u></th> <th><u>Min. Type Size</u></th> </tr> </thead> <tbody> <tr> <td>X ≤ 50cm²</td> <td>1 mm</td> <td>6 point</td> </tr> <tr> <td>50cm² < X ≤ 100cm²</td> <td>2 mm</td> <td>8 pint</td> </tr> <tr> <td>>100cm²</td> <td>3 mm</td> <td>10 point</td> </tr> </tbody> </table> <p>Note: If displace space area < 9cm², the following warning or its equivalent can be used instead: WARNING: Do not leave burning candles unattended. AVERTISSEMENT: Ne pas laisser de bougie allumée sans surveillance.</p>	<u>Area of Display Space</u>	<u>Min. Type Height</u>	<u>Min. Type Size</u>	X ≤ 50cm ²	1 mm	6 point	50cm ² < X ≤ 100cm ²	2 mm	8 pint	>100cm ²	3 mm	10 point	
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X ≤ 50cm ²	1 mm	6 point													
50cm ² < X ≤ 100cm ²	2 mm	8 pint													
>100cm ²	3 mm	10 point													

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

Key: *: Additional charge items †: Mandatory Requirement

Risk classification:

Category	Candle type
Low Risk	Minimal decoration/paint Floating candles Dinner candles Large diameter Metal cup tea lights
High Risk	Highly decorated/painted Complex wax/wick structure Multi-wick structure Candles with inclusions Gel candles Tealights in non-metal containers

Testing Charge & Sample Size & Turnaround Time

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Basic Package Price (USD)	Burn time < 24 hrs	240
	Burn time up to 80 hrs	355
	Burn time over 80 hrs	460
	Tealights	300 (metal cup) / 355 (plastic cup)
	High risk candles	+ 100
	(All are Listed Price)	
Sample Size for basic package	4 for low risk candles 6 for high risk candles 12 tealights	
Turnaround time	Depends on burn time	
Additional charge (subject to client discount)		
Additional sample size		
a. CA Prop 65	On quote	Subject to actual sample
b. Lead Content of Paints or Similar Surface Coating (US)	USD 31 per result	0.5 grams of coating on finished product
c. Lead in wick	USD 31	1 piece
d. Polarity of fragrance on raw materials	On request	On request
e. Flashpoint of fragrance liquid on raw materials	USD 81	20 ml
f. Paraffin content	USD 202	2 pieces
g. Citronella Content	On request	On request
h. Food contact material	Upon request	Upon request
i. Toxic Elements in Packaging Components	USD 54 per result	0.5 grams of material
j. Total Lead in Surface Coating (CN)	USD 31 per coating	0.5 grams of coating on finished product
k. Lead in wick	USD 31	1 piece
l. Flashpoint of fragrance liquid on raw materials	USD 81	20 ml
m. Soot behaviour	USD 230	1 piece
n. Thermal shock	USD 128 (Net)	3 pieces of container
o. Annealing performance – ASTM C148	USD 256	3 pieces of container
p. Annealing performance – Scratch method	USD 128 (Net)	3 pieces
q. Resistance to corrosion	USD 54	2 pieces
r. 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	Initial release	Mondy Tung	Taylor (Emily) on 08 Jan 2013