

# REPORT

Technical Report: (9608) 337-0020

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DEC. 05, 2008





# TEST REPORT

NGUYEN QUANG MINH CANDLE CO. LTD  
 10 BINH KY, HOA QUY WARD, NGU HANH SON  
 DISTRICT, DA NANG CITY, VIETNAM

**LAB LOCATION:** VIETNAM  
**LAB NUMBER:** (9608) 337-0020

**ATTN:** MR. QUANG ANH  
**CC:** /

**DATE IN:** DEC. 02, 2008  
**DATE OF PERFORMANCE:** DEC. 02, 2008  
**MOD. LOG IN:** /  
**DATE OUT:** DEC. 05, 2008  
**REVISED DATE:** /  
**WORKING DAYS:** 3<sup>RD</sup>  
**PAGE:** 2 OF 16

OVERALL RATING	
PASS	<u>    X    </u>
FAIL	<u>          </u>
DATA	<u>          </u>

**TESTING FOR**  
**CANDLE / FILLED CANDLE (INDOOR & OUTDOOR)**  
**MC-9400-US**

<b>Sample Description:</b>	S/2 VOTIVE GLASS CANDLE (6 PCS W/ PACKAGE)		
<b>Manufacturer:</b>	CANDLES INDUSTRY VIETNAM	<b>P.O. No.:</b>	RID SM 08 (02)
<b>Buyer:</b>	/	<b>Style:</b>	D-GFS-002087
<b>Country of Origin:</b>	VIETNAM	<b>Country of Destination:</b>	VIETNAM
<b>Color:</b>	ASPEN YELLOW	<b>SKU Number:</b>	NIL
<b>Re-test:</b>	<b>Yes:</b> <input type="checkbox"/>	<b>No:</b> <input checked="" type="checkbox"/>	<b>Charge Vendor:</b> <b>Yes:</b> <input checked="" type="checkbox"/> <b>No:</b> <input type="checkbox"/>
<b>Previous Report No.:</b>	N/A		



**EXECUTIVE SUMMARY:**

The submitted sample is rated as **PASS** with satisfactory performance in the requested tests. Please refer to enclosed worksheets for the test results.

**Remark: BVCPS Contact information for this report.**

**Technical questions:**

Technical questions: (Vietnamese): Kelvin Tran, 848-37421-604 ~ 6; email: kelvin.tran@vn.bureauveritas.com  
Technical questions: (English): Allen Hsu, Tel: 848-37421-604 ~ 6; email: allen.hsu@vn.bureauveritas.com

**Concerns About Billing and General Inquiries:**

Primary Contact: Christine Le, Tel: 848-37421-604 ~ 6; email: christine.le@vn.bureauveritas.com  
Back-up Contact: Joe Luu, Tel: 848-37421-604 ~ 6; email: joe.luu@vn.bureauveritas.com

**BUREAU VERITAS CONSUMER PRODUCTS SERVICES (VN) LTD.**

**ALLEN HSU  
LAB MANAGER**

**REMARKS:**

1. This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission.
2. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted.
3. Our report includes all the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request additional testing of the samples or to notify us of any errors or omissions relating to our report; provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report content.



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**BUREAU VERITAS TEST PROTOCOL FOR**  
**MC-9400-US**

**Candle / Filled Candle (Indoor & Outdoor)**

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating
<b>SCOPE: The testing procedures outlined in this protocol are intended for Indoor and Outdoor Candles, both filled and non filled.</b>					
<b>SUPPLEMENTAL PROTOCOLS</b>					
* CA Proposition 65 Upon request	Applicable Section from Protocol MC-6572-US	--	The sample shall be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required.	NR	-
* Candleholder	MC-9425-US	--	If the candle contains a holder, it shall be tested to Protocol: MC-9425-US "Candle Holder". This does not include candle wax filled candles into it's own jar. Filled candles (wax and jar) are tested within MC-9400-US.	NA (No Candleholder)	-
Note: Additional cost, sample size & TAT may be required if testing to 1 or more supplemental protocol is necessary. Please refer to the above referenced supplemental protocol(s) for additional information.					
<b>LABELING</b>					
One time use products **Fair packaging and labeling act or all other products **Uniform packaging and labeling regulations	CPSD-HL-08602-MTHD OR NIST Uniform Laws and Regulations Handbook 130	1	Manufacturer, Packer, or Distributor's Name & Address (City, State & ZIP Code)	M	PASS
			Product Identification	M	PASS
			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).	M	PASS
**Country of origin	19 CFR 134	1	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.	M	PASS



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**MC-9400-US**

**Candle / Filled Candle (Indoor & Outdoor)**

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating														
Candle - FPLA	16 CFR 501.7	1	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.	M	PASS														
			<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	Height x Width	M (Filled Candle: Wax Weight: 45 g)	PASS
			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	Height x Width																		
(US Standard & Metric for all candles)	NA	-																	
Use or safety or warning or cautionary - instructions	CPSD-HL-01057-MTHD / Visual	1	<p>Shall be clear, concise, and understandable and:</p> <ul style="list-style-type: none"> <li>- Provide step-by-step method of use.</li> <li>- Be provided in language appropriate to destination countries.</li> </ul> <p>Provide a copy of the instructions in the report.</p>	M	PASS														
* Candles with pesticides - (e.g., Citronella) claims to control or mitigate disease vectors – (e.g., Lyme’s disease or West Nile Virus)	EPA Registration Requirement	1	<p>If a 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.</p> <p>1. The label must include an EPA registration number.</p> <p>If the candle is not registered it must comply with the citronella candle labeling exemptions of FIFRA &amp; 40 CFR 152</p>	NA	-														



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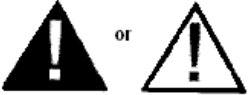
**MC-9400-US**  
**Candle / Filled Candle (Indoor & Outdoor)**

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating
Candles with certain active ingredients (e.g., Citronella) without EPA registration - FIFRA exemption requirements	FIFRA 25 (b) Exemption/ 40 CFR 152	1	<p>A candle with an active ingredient, such as citronella, may be exempt from EPA registration if it meets ALL of these requirements:</p> <ol style="list-style-type: none"> <li>1. It does not bear a claim to control or mitigate disease vectors (label can have general labeling - repels bugs; repels mosquitos; or have a picture of a dead bug)</li> <li>2. The active ingredients are listed in the FIFRA 25(f)(1) list</li> <li>3. The product contains inert ingredients from the approved FIFRA list (Paraffin) (Colorants are not listed); and</li> <li>4. It must have labeling identifying the name and percentage of each active and name of each inert ingredient.</li> </ol>	NA	-



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**MC-9400-US**  
**Candle / Filled Candle (Indoor & Outdoor)**

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating
Cautionary labeling	ASTM F2058-07 Section 6.3	1	<p>Must meet the minimum size requirements, label placement requirements, and minimum safety language. Text only or text and pictograms warnings are permissible, but shall comply with the specific requirements for either option.</p> <p>Text Only Options:            Shall consist of the safety alert symbol (Figure 1) followed immediately by the word "WARNING" in uppercase boldface letters.</p> <p>The following fire safety warning statements or practical equivalents shall appear in this order:            Burn within sight            Keep away from things that catch fire            Keep away from Children            These may appear in stacked format or paragraph form.</p> <p>Abbreviated text only fire safety warnings are permissible for candles with warning panels 21 cm<sup>2</sup> or less in size and for individually wrapped taper candles.</p> <p align="center">  </p> <p align="center">Figure 1 Acceptable Safety Alert Symbols</p>	NR	-



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**MC-9400-US**  
**Candle / Filled Candle (Indoor & Outdoor)**

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating
Cautionary labeling- continued			<p><u>Text and Pictogram Option:</u>            Shall consist of the safety alert symbol followed immediately by the following pictograms:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">               "Burn within sight" pictogram           </div> <div style="text-align: center;">               "Keep away from things that catch fire" pictogram           </div> <div style="text-align: center;">               "Keep away from children" pictogram           </div> </div> <p>The following fire safety warning statements or practical equivalents shall appear in this order:            Burn within sight            Keep away from things that catch fire            Keep away from Children            These may appear in stacked format or paragraph form.</p> <p>Abbreviated text and pictogram fire safety warnings are permissible for candles with warning panels 21 cm<sup>2</sup> or less in size and for individually wrapped taper candles. The warning shall consist solely of the safety alert symbol followed by the burn within sight pictogram and the fire safety warning statement "Burn within sight" or its practical equivalent.</p>	NR	-





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**MC-9400-US**  
**Candle / Filled Candle (Indoor & Outdoor)**

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating
Candle instructions review	CPSD-HL-01057-MTHD / Visual	1	Trim wick to ¼” prior to lighting. Do not allow wick trimmings to accumulate in wax pool.  Place on temperature safe surface.  <b>Shall also include the following for specific candle types:</b> <b>Filled candle:</b> “container will be hot when candle is lit”	M	PASS
Lead in metal wick - metal-cored wicks	16 CFR 1500.17(a)(13)	1	The outer container or wrapper of candles with metal-cored wicks (Manufactured or imported on or after Oct. 15, 2003) must be labeled “Conforms to 16 CFR 1500.17(a)(13).”	NA (No Metal – Cored Wick)	-
Claim verification - level 2	CPSD-HL-08612-MTHD / Claim verification	All	Examine the retail packaging (or submitted artwork).  Record each objective (factual) claim which can be substantiated by the testing within this protocol and rate accordingly.  Any net quantity/dimensional claims evaluated in other sections of this protocol need not be recorded.  Record all other objective (factual) and subjective (opinion) claims as ‘NT’ for Not Tested and rate as ‘FAIL’.	M	PASS
<b>ANALYTICAL</b>					
* Lead content in surface coatings	ASTM E1613-04 / E1645-07 modified	1	Shall not exceed 600 ppm (0.06% by weight) total lead.	NA (No Surface Coating)	-
* Lead in metal wick	16 CFR 1500.17(a)(13)	1	Must be less than 600ppm total lead.	NA (No Metal Wick)	-
* †Flammability of raw material fragrance or liquid - gel candles only	16 CFR 1500.43a / 16 CFR 1500.3(c)(6)	1	Flashpoint shall be greater than 150° F.	NA (Not Gel Candle)	-



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**MC-9400-US**  
**Candle / Filled Candle (Indoor & Outdoor)**

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating
* Polarity of fragrance - gel candles only	Combine fragrance with mineral oil:  1) 25% fragrance and 75% mineral oil;  2) 75% fragrance and 25% mineral oil.	1	Report. Fragrance shall be non-polar (100% soluble with no separation) at the two ratios of fragrance and mineral oil.	NA (Not Gel Candle)	-
*Citronella Content If Claimed	TP-044	1	Report the percentage of citronella in the candle.	NA (Not Citronella Candle)	-
<b>PHYSICAL CHARACTERISTICS</b>					
Dimensions	CPSD-HL-01056-MTHD / Standard measure	1	Report overall dimensions; shall meet label claims (If applicable) (-0% / +5%).	C: - R: 2.07"Dia x 2.47"H	-
Dimensions - length - wick	CPSD-HL-01056-MTHD / Standard measure	1	Sufficient length for lighting (min. 1/4" exposed wick)	C: - R: 7/16"	PASS
Weight	CPSD-HL-01056-MTHD / Standard measure	1	Report overall weight; shall meet label claims (If applicable) (-0% / +5%).	C: 45 g R: 45.9 g (+2%)	PASS
Parts inventory	CPSD-HL-01057-MTHD / Visual	1	Shall meet label claims.	NA (No Claim)	-
Fragrance	CPSD-HL-01058-MTHD / Actual use	1	Must comply with claims	Scented	-
Wick analysis - dimensions and shape	CPSD-HL-01056-MTHD / Standard measure / CPSD-HL-01057-MTHD / Visual	1	Report actual.	Cored – Shape 1.35"L x 0.05"W	-



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**MC-9400-US**  
**Candle / Filled Candle (Indoor & Outdoor)**

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating
Wick analysis – construction and type and Defects and etc.	CPSD-HL-01057-MTHD / Visual	1	Report actual.	Braided	-
<b>CONSTRUCTION &amp; WORKMANSHIP</b>					
Sharp points and sharp edges	16 CFR 1500.48/1500.49 modified	All	Shall have no sharp points/edges, other than those required for function. Modification = Expanded scope to other products	M	PASS
Defects	CPSD-HL-01057-MTHD / Visual	All	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.	M	PASS
Workmanship	CPSD-HL-01057-MTHD / Visual	All	Shall have no components missing, malformed, and/or fractured.	M	PASS
Aesthetic evaluation	CPSD-HL-01057-MTHD / Visual	All	Shall be free of bubbles, cracks, chips, or dents except when they are intended as part of the design / pattern.	M	PASS
<b>PERFORMANCE: Candles are burned for 8-hour cycles until end of useful life.</b>					
Actual use - functionality - not covered by other tests	CPSD-HL-01058-MTHD / Actual use	All	Shall function as intended as received. Report details of evaluation (features tested/methods used/materials used/ etc.) Report any features not evaluated.	M	PASS
Flammability of solids	16 CFR 1500.44 modified	1	Burn rate < 0.1 in / s all surfaces of each different material on candle and / or candleholders must be tested for flammability of solids. Modification = Test all surface of each material rather than test on major axis only	M (D.N.I)	PASS
Candles and candle holders stability - if applicable	ASTM F2417-04 section 4.4 modified / CPSD-HL-09400-MTHD	1	Candles that do not require a holder to keep them upright, shall remain stable at 10 <sup>0</sup> inclination without tipping.  Rotation around vertical axis is required for items that are not symmetrical in all 360 <sup>0</sup> around its vertical axis.	M	PASS



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**MC-9400-US**  
**Candle / Filled Candle (Indoor & Outdoor)**

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating
Flame height	ASTM F2417- 04 , section 4.1 modified / CPSD-HL-09401-MTHD	1	When measured from the base of the flame to the tip of the flame, flame height shall not exceed: 1) Tealight / Birthday candle: 2 inches, or 2) Non-tealight / Non-birthday candle: 3 inches.  Results for outdoor candles shall be reported as data only. Modification = Flame height requirement for tealights / birthday candles	M (1/ 2")	PASS
Secondary ignition	ASTM F2417- 04 , section 4.2 modified / CPSD-HL-09401-MTHD	1	Shall not cause secondary ignition, such as igniting material other than the intended wick during candle burning testing.	M	PASS
End of useful life	ASTM F2417- 04 , section 4.3 modified / CPSD-HL-09401-MTHD	1	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.	M	PASS
Abnormalities	ASTM F2417- 04 , section 5.2 modified / CPSD-HL-09401-MTHD	1 (hourly Readings)	Report any abnormalities (for example <i>but not limited to</i> – any characteristic which would not be the normal and/or expected performance of the product, such as the ejection of component material, the creation of hazardous conditions, etc.) during burn performance testing. Shall not display any characteristic that may result in property damage or result in potential hazard.	M (No Any Abnormalities)	PASS
Overflow	ASTM F2417- 04 , section 5.2 modified / CPSD-HL-09401-MTHD	1	If holder is present, it shall be capable of containing all candle material throughout burn test. Report any overflow as failure and provide image.  If no holder is present, molten wax shall not escape from candle and reach surface upon which candle is burned unless a label is provided that instructs a consumer to use appropriate holder when burning candle.	M (No Overflow)	PASS



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**MC-9400-US**  
**Candle / Filled Candle (Indoor & Outdoor)**

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating
Visual smoke	ASTM F2417-04 , section 5.2 modified / CPSD-HL-09401-MTHD	1	Smoke is recorded as "Intermittent" of "Continuous". The total number of readings must not exceed 20% (Intermittent) / 10% (Continuous) of the total number of hours burned.	M (No Smoke)	PASS
Soot build up	ASTM F2417-04 , section 5.2 modified / CPSD-HL-09401-MTHD	1	No visually excessive build up of residue on container walls after burn test. Report grade only.	M (No Soot)	PASS
Container temperature - filled candles and tealights	ASTM F2417-04 modified / CPSD-HL-09401.01-MTHD/ UL 153 12th Edition Table 125.1 modified	1	Measure the entire outside container surface temperature. Report the material type, maximum temperature and location. Surface temperature shall not exceed listed material limits: Max. Temp: Metal - 125° F / glass and other materials- 140° F Note: Filled / container type candles only.	M (Glass: 85.74°F)	PASS
Afterglow	RAL-GZ 041 2005 modified / ASTM F2417-04 section 5.2 modified / CPSD-HL-09401-MTHD	1	Afterglow of tip shall be less than 60 seconds after flame is extinguished Report as failure if afterglow lasts longer than 60 seconds. If possible, provide a digital image of the afterglow.  Modification = Modified afterglow evaluation period from within 15 seconds of RAL-GZ 041 to within 60 seconds	M (No Afterglow)	PASS
Candle holder – resistance to Flame - Interior - filled candles and tealights	ASTM F2417-04 modified / CPSD-HL-09402-MTHD	1	Flame impingement shall be 5 minutes. Shall not expose a hazardous condition, such as (but not limited to), ignition, a sharp point / edge or expose flame to the outside of the holder, etc. Non-hazardous holder damage is acceptable.	M	PASS



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**MC-9400-US**  
**Candle / Filled Candle (Indoor & Outdoor)**

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating
Glass properties: Effectiveness of annealing - filled glass holders only	ASTM F2179-02 section 4.1 modified / CPSD-HL-9404-MTHD	1	With a Tungsten Carbide scribe, scratch once around the inside knuckle of the article. Then scratch an "X" across the entire inside bottom surface of the article. All scratches are to be made using sufficient pressure to penetrate the surface of the glass.  After using either method, fill each article with water at the same room temperature as the glass. Wait 15 minutes, then empty the water and examine each piece for fractures. Report the number of fractures, if any, for each test.  If no breakage occurs – Break it to verify whether it's annealed or tempered glass.  Note: H-9404 is a Modified method from ASTM F2179-02	M	PASS
Sustained direct flame	CPSD-HL-09407-MTHD / Flame application	1	Shall not contain any ignitable material which can produce a hazardous condition during reasonable foreseeable use.	NA	-
Burning time	ASTM F2417-04 Section 5.2	1	As claimed – Must comply with claims (Report claimed & actual length of burn time in hours)	17 Hours 5 Minutes	-
Smoke after extinguishing	RAL-GZ 041 2005 modified / ASTM F2417-04 section 5.2 modified / CPSD-HL-09401-MTHD	1	Smoke shall not last longer than 60 seconds after extinguishing. Report as failure if smoke lasts longer than 60 seconds. If possible, provide a digital image of the smoke.  Modification = Modified smoke after extinguishing evaluation period from 15 seconds of RAL-GZ 041 to within 60 seconds	M (3 Seconds)	PASS



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**MC-9400-US**  
**Candle / Filled Candle (Indoor & Outdoor)**

Evaluation	Citation/Method	No. Samples	Criteria	Results	Rating
* Glass properties: Thermal shock - filled glass holders only	ASTM F2179-02 Section 4.2 / ASTM C149-05	3	<p>Determine the cold-water bath temperature based on the available tap water temperature, and adjust the temperature of the hot water bath to be 90° F higher than the cold water.</p> <p>Once the temperature of the hot water bath has been established, place the samples in the hot water bath for 5 minutes.</p> <p>Remove the samples from the hot water bath and place them into the cold-water bath with a time lapse of no more than 15 seconds. Be sure to empty the hot water out of the sample containers.</p> <p>Maintain the samples in the cold-water bath for 30 seconds. Dry the containers and visually inspect for cracking or fractures. Report findings. Any cracking or fractures is considered a failure.</p>	M	PASS
*Resistance to corrosion	ASTM B117-07 modified / CPSD-HL-01010- MTHD	1	Shall not exhibit significant corrosion as compared to the control sample after 24 hours exposure to 1% salt fog.	NA (No Metal Component)	-



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Key:

\* Additional Charge For This Test      \*\* Mandatory Requirement

Results Key:

M	Meets	NM	Does Not Meet
NA	Not Applicable	NT	Not Tested
C	Claimed	R	Recorded

No. Of Samples Required For Complete Testing:	3	6 additional for filled candles (for ASTM F2179)
No. Of (Fully Packed) Cartons For Transit Testing:	1	
No. Of Working Days For Complete Testing:	7+	Dependant Upon Candle Burn Time of Pillars and Large Candles

Creation Date: May 20, 2003  
 Editorial Revision Date: May 5, 2008  
 Pricing Review Date: April 27, 2006  
 Technical Review Date: Sept. 13, 2004