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File H100045-C2 - Document CQPE/2 - Page 1/24

TEST REPORT

Applicant : **EUROPEAN FEDERATION OF LIGHTERS MANUFACTURERS**
40, rue de Washington
1050 BRUXELLES
BELGIQUE

Date of order : 7th April 2008

Subject : Tests on gas lighters

Standard : ISO 9994 – (September 2005) "Lighters - Safety specification".

Identification of samples : **European Lighters Companies**
50 samples of 13 types of **BIC** lighters were selected by notaries public from European warehouses and sent directly to LNE.
15 samples of 10 types of **Swedish Match** lighters were selected by notary public from European warehouse and sent directly to LNE.
15 samples of 10 types of **Flamagas Clipper** lighters were selected by notary public and sent directly to LNE.

Imported Lighters
50 samples of 20 types of imported lighters were purchased by notaries public and sent directly to LNE.
50 samples of one type of imported lighters marked "RS" were purchased by notary public and sent directly to LNE for counter tests.

Dates of receipt : BIC lighters: from 18th December 2006 to 21st May 2007
Swedish Match lighters: 1st March 2006
Flamagas lighters: 12th November 2007 and 15th January 2008
Imported lighters: from 8th March to 11th June 2007 and 9th October 2007

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1. REALIZATION OF TESTS

This test report is the summary of the test reports referenced F010693-CQPE/4, CQPE/6, CQPE/10 and CQPE/12, G120583-CQPE/2, H016367-CQPE/4, H030496-CQPE/1 to 4 and CQPE/6 to 21, H100115-CQPE/3, H121045-CQPE/2, CQPE/4, CQPE/8, CQPE/10, CQPE/12, CQPE/14, CQPE/16, CQPE/18 and CQPE/20, J017182-CQPE/6.

For lighters coming from European companies, tests are carried out following the ISO 9994 : 2005 Standard.

For imported lighters, tests are carried out following the ISO 9994 : 2005 Standard and following instructions of the applicant as described in annex 3.

Samples submitted to tests are shown in annex 2.

Results are shown in annex 1.

2. CONCLUSION

European Lighters Companies

- All **BIC** lighters tested comply with all the requirements of the ISO 9994 : 2005 Standard.
- All **Swedish Match** lighters tested comply with all the requirements of the ISO 9994 : 2005 Standard.
- All **Flamagas** lighters tested comply with all the requirements of the ISO 9994: 2005 Standard.

Imported Lighters

- All **imported** lighters do not comply with the requirements of the ISO 9994 : 2005 Standard.

Note : One type, the RS lighter (test report H030496-CQPE/7), initially complies with the requirements of studied paragraphs of the ISO 9994: 2005 Standard, but further counter tests on new samples show that RS lighters do not comply with the requirements of the ISO 9994: 2005 Standard.

Trappes, 14 April 2008

Director of Centre for Qualification of
Products and Equipment

Test Officer

Francis WELVART

Laurence WACHENHEIM

The results which are quoted are only applicable to the sample, the product or material submitted to LNE and which is fully described in the document.

Test results for European Companies: BIC

FUNCTIONAL REQUIREMENTS									STRUCTURAL INTEGRITY REQUIREMENTS									INSTRUCTIONS & WARNINGS				MARKING	REMARK	
3.1- Flame generation	3.2- Flame height when 1st struck (<100mm) (or for non-adjustable: <50 mm)	Maximum flame height (<120 mm)	Maximum flame height (<50 mm)	3.3- Flame height adjustment	3.4- Resistance to spitting or sputtering and flaring	3.5- Flame extinction	3.6- Volumetric displacement	3.7- Ignition delay	3.8- Ignition energy	4.1- External finish	4.2- Compatibility with fuel	4.3- Resistance to fuel loss (refillable lighters)	4.4- Resistance to dropping	4.5- Resistance to elevated temperature	4.6- Resistance to internal pressure	4.7- Burning behaviour	4.8- Resistance to cycling burning	4.9- Resistance to continuous burning	6.2- Location	6.3- Content	6.4- Safety symbols	6.5- Refilling instructions	7- Product marking	

SAMPLES TESTED

	C	C	C	C	C	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	CONCLUSION
BIC J1HL Maxi	C	C	C	C	C	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
BIC J3 Slim	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
BIC J5 Mini	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
BIC J6 Maxi	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
BIC J21 Maxi	C	C	C	C	C	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
BIC J23 Slim	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
BIC J25 Mini	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
BIC J26 Maxi	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
BIC J8 Electronic	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
BIC J9 Minitronic	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
BIC J18D Electronic	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
BIC J38 Electronic	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
BIC J39 Minitronic	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY

- C** Complies with ISO 9994:2005
- NC** Does not comply with ISO 9994:2005
- N/A** This requirement is not applicable

Note: Lighters are marked "Made in France" or "Made in Spain"

ANNEX 1



Test results for European companies: SWEDISH MATCH

FUNCTIONAL REQUIREMENTS								STRUCTURAL INTEGRITY REQUIREMENTS									INSTRUCTIONS & WARNINGS				MARKING	REMARK
3.1- Flame generation	3.2- Flame height when 1st struck (<100mm) (or for non-adjustable: <50 mm)	Maximum flame height (<120 mm)	Maximum flame height (<50 mm)	3.3- Flame height adjustment	3.4- Resistance to spitting or sputtering and flaring	3.5- Flame extinction	3.6- Volumetric displacement	4.1- External finish	4.2- Compatibility with fuel	4.3- Resistance to fuel loss (refillable lighters)	4.4- Resistance to dropping	4.5- Resistance to elevated temperature	4.6- Resistance to internal pressure	4.7- Burning behaviour	4.8- Resistance to cycling burning	4.9- Resistance to continuous burning	6.2- Location	6.3- Content	6.4- Safety symbols	6.5- Refilling instructions	7- Product marking	

SAMPLES TESTED

CONCLUSION

SM ED0 Maxi	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
SM ED0 Maxi CR	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
SM ED1C Original	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
SM ED1C Original CR	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
SM ED1MC Mini	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
SM ED1MC Mini CR	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
SM ED4 Electronic	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
SM ED4 Electronic CR	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
SM ED4P Pocket	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY
SM ED4P Pocket CR	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	N/A	C	COMPLY

- C** Complies with ISO 9994:2005
- NC** Does not comply with ISO 9994:2005
- N/A** This requirement is not applicable

Note: Lighters are marked "Made in Holland"

Test results for European Companies: FLAMAGAS

FUNCTIONAL REQUIREMENTS								STRUCTURAL INTEGRITY REQUIREMENTS								INSTRUCTIONS & WARNINGS				MARKING	REMARK	
1.1 Flame protection	1.2 Flame height when lit (max. 15°) (max. for 1000 cycles) (ISO 9954)	Max. flame height (max. 100 mm)	Max. flame height (ISO 9954)	1.5 Flame height adjustment	1.6 Resistance to soot trap or soot trap cleaning	1.7 Flame and noise	1.8 Volumetric consumption	4.1 External Flame	4.2 Flame spread by wind jet	4.3 Resistance to fuel flow (no flame lift max)	4.4 Resistance to dripping	4.5 Resistance to exceed temperature	4.6 Resistance to flame extension	4.7 Dripping behaviour	4.8 Resistance to cyclic lighting	4.9 Resistance to continuous burning	2.0 - Legend	2.1 - Content	2.4 - Safety symbols	2.5 - Testing instructions	2.7 - Product marking	

SAMPLES TESTED

	C	C	N/A	N/A	N/A	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	CONCLUSION
CLIPPER Classic Flint Large: CP11RH	C	C	N/A	N/A	N/A	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	COMPLY
CLIPPER Classic Electronic Large: CK11RH	C	C	N/A	N/A	N/A	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	COMPLY
CLIPPER Classic Flint Pocket: CP12D	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	N/A	C	COMPLY
CLIPPER Classic Flint Micro: CP22RH	C	C	N/A	N/A	N/A	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	COMPLY
CLIPPER Brio Flint Large: BP11D	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	N/A	C	COMPLY
CLIPPER Brio Flint Pocket: BP12D	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	N/A	C	COMPLY
CLIPPER Brio Flint Medium: BP21DH	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	N/A	C	COMPLY
CLIPPER Brio Flint Micro: BP22DH	C	C	N/A	N/A	N/A	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	N/A	C	COMPLY
CLIPPER Stylo Flint: SP21RH	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	COMPLY
CLIPPER Stylo Electronic: BK21RH	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	COMPLY

- C Complies with ISO 9954:2005
- NC Does not comply with ISO 9954:2005
- N/A This requirement is not applicable



Test results for imported lighters

Lighter n°	BRAND	Ignition type	Code (bottom of lighter)	Country of Purchase	Place of purchase	LNE file H030496 Document number	FUNCTIONAL REQUIREMENTS				STRUCTURAL INTEGRITY REQUIREMENTS			FUNCTIONAL REQUIREMENTS AFTER STRUCTURAL INTEGRITY TESTS				FUNCTIONAL REQUIREMENTS		CONCLUSION				
							3.2) Flame Height	3.4) Spitting, Flaring	3.5) Extinction	3.6) Volumetric displacement	4.4) Drop Tests	4.5) Temperature	4.9) Continuous burning	3.2) Flame Height	3.4) Spitting, sputtering	3.4) Flaring	3.5) Extinction	6) Instructions and warnings	7) Marking					
1	TROPPO	piezo	-	ES	Expendeduria 61	CQPE/1	OK	NC	NC	OK	OK	OK	OK	OK	NC	OK	NC	NC		OK	Not Conform			
2	KINCHO	flint	43015	ES	Vijay Import	CQPE/2	NC	NC	NC	NC	OK	NC (1)	NC	NC	NC	NC	NC	NC		OK	Not Conform			
3	ATOMIC	flint	GT-x	ES	Expendeduria 61	CQPE/3	NC	NC	NC	OK	OK	NC	OK	NC	OK	NC	OK		OK	Not Conform				
4	CAMELION	piezo	39017	ES	Vijay Import	CQPE/4	NC	NC	NC	NC	NC	NC	NC	OK	OK	OK	OK		OK	Not Conform				
5	ATOMIC	piezo	39023	DE	Rewe	CQPE/6	OK	NC	OK	opaque	OK	NC	NC	OK	OK	NC	OK	OK	OK	OK	Not Conform			
6	RS	flint	VG-x	DE	Woolworth	CQPE/7	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Not Conform		
			GT-x	NL	Pollemans	H100115 CQPE/8	NC	NC	NC	OK	OK	OK	OK	NC	OK	NC	OK		OK		OK		Not Conform	
7	WILD FIRE	piezo	39019	NL	H&H Tabak Shop	CQPE/8	NC	NC	OK	NC	OK	NC	OK	NC	OK	NC	OK	NC	OK	NC	OK	Not Conform		
8	ZORRO	piezo	39019	NL	Sonneveld	CQPE/9	NC	NC	NC	NC	n.l.o.	NC	NC	OK	OK	NC	NC	NC	NC	OK	NC	OK	Not Conform	
9	NASS	piezo	39017	NL	Sonneveld	CQPE/10	NC	NC	NC	NC	OK	NC	OK	NC	OK	NC	NC	NC	NC	OK	NC	OK	Not Conform	
10	UNILITE	piezo	39021	CH	Denner	CQPE/11	NC	NC	NC	NC	NC	OK	OK	NC	OK	NC	NC	NC	NC	OK	NC	OK	Not Conform	
11	ORNET flat	flint	-	PT	Diyamax	CQPE/12	NC	NC	OK	OK	NC	OK	OK	NC	OK	NC	OK	NC	OK	NC	OK	NC	OK	Not Conform
12	ORNET rect.	flint	-	PT	Diyamax	CQPE/13	NC	NC	NC	NC	OK	NC	OK	NC	OK	NC	OK	NC	OK	NC	OK	NC	OK	Not Conform
13	TAKITO	piezo	-	NL	Sonneveld	CQPE/14	NC	OK	OK	OK	NC	NC	OK	NC	OK	OK	OK	OK		OK		OK	Not Conform	
14	EXTRA+	flint	VN:65	UK	Booker	CQPE/15	NC	NC	OK	OK	OK	OK	OK	NC	OK	OK	NC	OK	OK	OK	OK	OK	OK	Not Conform
15	EXTRA+	piezo	39001	UK	Booker	CQPE/16	NC	NC	OK	opaque	OK	OK	OK	OK	OK	OK	OK	OK	NC	OK	NC	OK	OK	Not Conform
16	K TWO	piezo	-	UK	M. McColl/Asda	CQPE/17	NC	NC	NC	opaque	OK	OK	OK	OK	OK	NC	NC	NC	NC	NC	OK	OK	OK	Not Conform
17	UNILITE	flint	GT-x	FR	Giga Store	CQPE/18	OK	OK	OK	OK	OK	NC	OK	NC	OK	NC	OK	OK	OK	OK	OK	OK	OK	Not Conform
18	RONSON	piezo	45008	UK	Bestway	CQPE/19	OK	NC	OK	opaque	NC	NC	OK	OK	OK	NC	OK	OK	OK	OK	OK	OK	OK	Not Conform
19	PARK ROAD	flint	VG-x	UK	Bestway	CQPE/20	NC	NC	NC	OK	OK	NC	OK	NC	OK	NC	OK	OK	OK	OK	OK	OK	OK	Not Conform
20	LEADER PRICE	piezo	39026	FR	Leader Price	CQPE/21	NC	NC	NC	NC	OK	OK	OK	NC	OK	NC	NC	NC	OK	OK	OK	OK	OK	Not Conform

NC not conform to ISO 9994:2005
OK conform to ISO 9994:2005

NC (1) not conform to ISO 9994:2005 & for safety reasons, tests are not carried on
n.l.o. no longer operable
not tested

Date of the notarised purchase of the 1000 lighters, from 20 different models, in 8 European countries: 1st semester 2007 and 9th October 2007 (for type #6)
Date of testing: mid 2007 and October 2007

ANNEX 2

The **BIC lighters** submitted to tests are shown below.



BIC Maxi J1HL



BIC Slim J3



BIC Mini J5



BIC Maxi J6



BIC Maxi J21



BIC Slim J23



BIC Mini J25



BIC Maxi J26



BIC Electronic J8



BIC Minitronic J9



BIC Electronic J18D



BIC Electronic J38



BIC Minitronic J39

The **SWEDISH MATCH** lighters submitted to tests are shown below.



SM Maxi ED0



SM Maxi ED0 CR



SM Original ED1C



SM Original ED1C CR



SM Mini ED1MC



SM Mini ED1MC CR



SM Electronic ED4



SM Electronic ED4 CR



SM Pocket ED4P



SM Pocket ED4P CR

The **FLAMAGAS** lighters submitted to tests are shown below.



CLIPPER CLASSIC FLINT LARGE: **CP11RH**



CLIPPER CLASSIC ELECTRONIC LARGE: **CK11RH**



CLIPPER CLASSIC FLINT POCKET: **CP12D**



CLIPPER CLASSIC FLINT MICRO: **CP22RH**



CLIPPER BRIO FLINT LARGE: **BP11D**



CLIPPER BRIO FLINT POCKET: **BP12D**



CLIPPER BRIO FLINT MEDIUM: **BP21DH**



CLIPPER BRIO FLINT MICRO: **BP22DH**



CLIPPER STYLO FLINT: **SP21RH**



CLIPPER STYLO ELECTRONIC: **SK21RH**

Imported lighters submitted to tests are shown in the following pages.

1. Brand: TROPPO
Code: /
Country of purchase: ES
Place of purchase: Expendeduria n° 61, c/Princesa 12, bajo, BARCELONA
Date of purchase: 06/03/2007
LNE test report n°: H030496-CQPE/1



2. Brand: KINCHO
Code: 43015
Country of purchase: ES
Place of purchase: VIJAY Import, c/Princesa 19, bajo, BARCELONA
Date of purchase: 06/03/2007
LNE test report n°: H030496-CQPE/2



3. Brand: ATOMIC
Code: GT-x
Country of purchase: ES
Place of purchase: Expendeduria n° 61, c/Princesa 12, bajo, BARCELONA
Date of purchase: 06/03/2007
LNE test report n°: H030496-CQPE/3



4. Brand: CAMELION
Code: 39017
Country of purchase: ES
Place of purchase: VIJAY Import, c/Princesa 19, bajo, BARCELONA
Date of purchase: 06/03/2007
LNE test report n°: H030496-CQPE/4



5. Brand: ATOMIC (JA!)
Code: 39023
Country of purchase: DE
Place of purchase: REWE, Rathausplatz, 65760 ESCHBORN
Date of purchase: 24/02/2007
LNE test report n°: H030496-CQPE/6



- 6.1. Brand: RS
Code: VG-x
Country of purchase: DE
Place of purchase: WOOLWORTH, Zeil 94 and Leipzigerstrasse 88, FRANKFURT
Date of purchase: 05/03/2007, 08/03/2007, 09/03/2007
LNE test report n°: H030496-CQPE/7



6.2. Brand: RS
Code: VG-x, GT-x
Country of purchase: NL
Place of purchase: Super de Boer Pollemans, van Beethovenlaan 7, Roosendaal
Date of purchase: 04/10/2007
LNE test report n°: H100115-CQPE/3



7. Brand: WILD FIRE
Code: 39019
Country of purchase: NL
Place of purchase: H&H Tabak Shop, Eerste Helmersstraat 253, 1054 DX AMSTERDAM
Date of purchase: 20/03/2007
LNE test report n°: H030496-CQPE/8



8. Brand: ZORRO
Code: 39019
Country of purchase: NL
Place of purchase: SONNEVELD, Kon. Wilhelminaplein 6, WADDINXVEEN
Date of purchase: 23/03/2007
LNE test report n°: H030496-CQPE/9



9. Brand: NASS
Code: 39017
Country of purchase: NL
Place of purchase: SONNEVELD, Kon. Wilhelminaplein 6, WADDINXVEEN
Date of purchase: 23/03/2007
LNE test report n°: H030496-CQPE/10



10. Brand: UNILITE
Code: 39021
Country of purchase: CH
Place of purchase: DENNER, Via Trevano 91, LUGANO
Date of purchase: 04/04/2007
LNE test report n°: H030496-CQPE/11



11. Brand: ORNET (flat)
Code: /
Country of purchase: PT
Place of purchase: DIYAMAX Import Export Lda, CC Mouraria, Piso 1, Loja 246, LISBOA
Date of purchase: 04/04/2007
LNE test report n°: H030496-CQPE/12



12. Brand: ORNET (rectangle)
Code: /
Country of purchase: PT
Place of purchase: DIYAMAX Import Export Lda, CC Mouraria, Piso 1, Loja 246, LISBOA
Date of purchase: 04/04/2007
LNE test report n°: H030496-CQPE/13



13. Brand: TAKITO
Code: /
Country of purchase: NL
Place of purchase: SONNEVELD, Kon. Wilhelminaplein 6, WADDINXVEEN
Date of purchase: 24/04/2007
LNE test report n°: H030496-CQPE/14



14. Brand: EXTRA+ (flint)
Code: VN:65
Country of purchase: UK
Place of purchase: BOOKER Cash & Carry, Curricle street, Acton, LONDON
Date of purchase: 12/03/2007
LNE test report n°: H030496-CQPE/15



15. Brand: EXTRA+ (piezo)
Code: 39001
Country of purchase: UK
Place of purchase: BOOKER Cash & Carry, Curricle street, Acton, LONDON
Date of purchase: 19/03/2007
LNE test report n°: H030496-CQPE/16



16. Brand: K TWO
Code: /
Country of purchase: UK
Place of purchase: Martin McColl, 45-47 Packhorse Road, Gerrards Cross, Buckinghamshire SL9 8PE,
Martin McColl, 4-6 The Yews, Chalfont Road, Maple Cross, Rickmansworth, Hertfordshire, WD3 2RP,
Martin McColl, 51-55 St Peters Court, High Street, Chalfont St Peters, Gerrards Cross, Buckinghamshire SL9 9QQ,
and Asda, Park Royal, LONDON
Date of purchase: 12/03/2007
LNE test report n°: H030496-CQPE/17



17. Brand: UNILITE
Code: GT-x
Country of purchase: FR
Place of purchase: GIGA STORE, 416 rue des Verdiers, LEERS
Date of purchase: 21/04/2007
LNE test report n°: H030496-CQPE/18



18. Brand: RONSON
Code: 45008
Country of purchase: UK
Place of purchase: BESTWAY Cash & Carry, Abbey Road 4, Park Royal, LONDON
Date of purchase: 10/05/2007
LNE test report n°: H030496-CQPE/19



19. Brand: PARK ROAD
Code: VG-x
Country of purchase: UK
Place of purchase: BESTWAY Cash & Carry, Abbey Road 4, Park Royal, LONDON
Date of purchase: 10/05/2007
LNE test report n°: H030496-CQPE/20



20. Brand: LEADER PRICE
Code: 39026
Country of purchase: FR
Place of purchase: LEADER PRICE, CC du Mesnil, 76360 BARENTIN
Date of purchase: 24/04/2007 and 16/05/2007
LNE test report n°: H030496-CQPE/21



report to be followed on next page

ANNEX 3

Instructions of applicant for tests on imported lighters

1st step

The 50 lighters are subjected to the following tests :

- flame height,
- spitting, sputtering,
- flaring,
- extinction,
- volumetric displacement (on 1 lighter. For transparent lighters, this lighter is used as a reference to make visual check on 49 other lighters).

2nd step

The 49 lighters are divided into four lots, subjected respectively to the following tests :

- drops after stabilizing at $20\text{ °C} \pm 2\text{ °C}$ (10 lighters),
- drops after 24 hours at $-10\text{ °C} \pm 2\text{ °C}$ (10 lighters),
- temperature test (20 lighters),
- continuous burning (9 lighters).

3rd step

Three lots (after drop 1, drop 2 and temperature test) are subjected to the following tests :

- flame height,
- spitting, sputtering,
- flaring,
- extinction.

Markings and instructions and warnings are also controlled.