

# CONFORMITY TO ISO 9994 "LIGHTERS - SAFETY SPECIFICATION"

Sponsored by: EUROPEAN FEDERATION OF LIGHTER MANUFACTURERS - 16 July 1999

## Summary of the Accredited Laboratories Test Reports on "imported" lighters

Lighter Brand	Country of Purchase	Accredited Laboratories	FUNCTIONAL REQUIREMENTS				STRUCTURAL INTEGRITY REQ.		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	3.2) Flame Height	3.4) Spitting, sputtering	3.4) Flaring	3.5) Extinction	6) Instructions and warnings	7) Marking	
1 Atomic	FR	LNE	NC	NC	OK	OK	OK	OK	NC	NC	NC	NC	OK	OK	Not Conform
2 Unbranded	FR	LNE	NC	NC [1]	NC	OK	NC	NC	NC	[1]	[1]	NC	NC	NC	Not Conform
3 Pilot	GB	LNE	NC	NC	NC	NC	OK	NC [2]	NC	OK	OK	NC	OK	OK	Not Conform
4 Tom	DE	LNE	NC	NC	NC	OK	NC	NC	NC	NC	NC	NC			Not Conform
5 False "Tokai"	FR	LNE	NC		NC	NC	NC						OK	OK	Not Conform
6 Unbranded novelty	ES	CATIM	NC		NC	NC	OK		NC	NC	NC	NC			Not Conform
		LGAI	OK	NC	NC	NC	OK		OK						Not Conform
		LNE	NC	NC	NC	NC	OK						NC	NC	Not Conform
7 Takai	ES	LGAI	NC	NC	NC	NC	NC	NC	NC	NC	NC				Not Conform
11 Top	CH	LNE	NC	NC	NC	NC	OK	NC [3]	OK	OK	NC	OK	NC	OK	Not Conform
12 Globus (on pack)	FR	LNE	NC	NC	OK	NC	NC	NC	OK	NC	NC	NC	NC	NC	Not Conform
13 Atomic	DE	TÜV	OK	NC	OK	NC	OK	OK	OK	OK	NC	OK	OK	OK	Not Conform
14 Star Line	DE	TÜV	OK	OK	OK	NC	OK	OK	OK	OK	OK	OK	OK	OK	Not Conform
15 Starlight	DE	TÜV	NC	NC	OK	NC	OK	NC	OK	OK	OK	OK	OK	OK	Not Conform
17 Unbranded (depot)	GB	LNE	NC	NC	NC	NC	NC	OK	OK	OK	NC	OK	OK	NC	Not Conform
18 Unbranded	AT	LNE	NC	NC	NC	NC							NC	NC	Not Conform
19 Unbranded	SE	LNE	NC	NC	NC	NC	OK						NC	NC	Not Conform
European Reputable Manufacturers:															
BIC (all models)		LNE	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Conform
CRICKET (all models)		LNE	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Conform
FLAMAGAS (all models)		LGAI	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Conform
TOKAI (all models)		TÜV	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Conform
DJEEP (all models)		LNE	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Conform

[1] "Considering the flame heights measured during the test ... and for safety reasons, this test has not been carried out" **NC** nonconformance to ISO 9994:1995

[2] "Two lighters exploded. ... For safety reasons, tests are not carried out" **NC** not tested

[3] "For safety reasons, tests are not carried out"

Date of the notarised purchase of the 4000 lighters, from 19 different models, in 10 European states: **1st trimester 1999**

Date of testing by independent accredited laboratories (LNE, TÜV, CATIM, LGAI): **April-June 1999**

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Sponsored by: EUROPEAN FEDERATION OF LIGHTERS MANUFACTURERS - 2001

## Summary of the Accredited Laboratories Test Reports on "imported" lighters

BRAND (ignition type)	Country of Purchase	Accredited Laboratories	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		
<b>Imported Asian design Lighters:</b>																	
1	FLYER (piezo)	IT	LNE	OK	NC	NC	opaque	n.i.o.	OK		OK	NC	NC	NC	OK	OK	Not Conform
2	unbranded (flint)	IT	LNE	NC	NC	NC	NC	NC	NC [1]		[1]	NC	NC	NC	NC	NC	Not Conform
3	TG (flint)	ES	LNE	NC	NC	NC	NC	NC	NC		OK	NC	NC	NC	OK	OK	Not Conform
4	COBRA (flint)	ES	LNE	NC	NC	NC	NC	NC	NC [1]		[1]	NC	NC	NC	OK	NC	Not Conform
5	SUNNY (flint)	ES	LNE	NC	NC	NC	NC	NC	NC		OK	NC	NC	NC	OK	NC	Not Conform
6	OK (flint)	ES	LNE	NC	NC	NC	NC	NC	NC [1]		[1]	NC	NC	NC	OK	NC	Not Conform
7	Liberty LITES (flint)	ES	LNE	NC	OK	NC	NC	NC	OK		OK	NC	NC	NC	OK	NC	Not Conform
8	GRAND (flint)	DE	LNE	NC	NC	NC	NC	NC	NC [1]		[1]	NC	NC	NC	OK	NC	Not Conform
9	JAZZ (flint)	GR	LNE	OK	NC	NC	OK	NC	NC [1]		[1]	[1]	[1]	[1]	OK	NC	Not Conform
10	unbranded (flint)	GR	LNE	NC	NC	NC	OK	NC	NC [1]		[1]	[1]	[1]	[1]	NC	NC	Not Conform
11	LUX (flint)	AT	LNE	OK	NC	NC	NC	n.i.o.	NC		OK	NC	NC	NC	OK	NC	Not Conform
12	RONSON (flint)	UK	LNE	OK	OK	OK	NC	OK	OK		OK	OK	OK	OK	OK	OK	Not Conform
13	STAR LINE (piezo)	DE	TÜV	OK	OK	OK	NC	OK	NC	NC	OK	OK	OK	OK	OK	NC	Not Conform
14	SLIM (piezo)	DE	TÜV	OK	OK	OK	opaque	NC	OK		OK	OK	OK	OK	OK	NC	Not Conform

## European Lighters Manufacturers:

BIC (all models)	LNE	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Conform
CRICKET (all models)	LNE	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Conform
FLAMAGAS (all models)	LGAI	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Conform
TOKAI (all models)	TÜV	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Conform
DJEEP (all models)	LNE	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Conform

[1] "For safety reasons, tests are not carried on"

**NC** not conform to ISO 9994:1995

**n.i.o.** no longer operable

**OK** conform to ISO 9994:1995

not tested

LNE: Laboratoire National d'Essais (French National Laboratory)

LGAI: Laboratori General d'Assaigs i Investigacions

TÜV: TÜV Rheinland Product Safety GmbH

Date of the notarised purchase of the 3000 lighters, from 14 different models, in 7 European states: **1st semester 2001**

Date of testing by the independant accredited laboratories (LNE, TÜV, LGAI): **mid 2001**

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	

BRAND (ignition type)

Chinese code

Country of Purchase

Place of purchase

LNE file E110133 Report number

Conformity to ISO 9994:2002

**Imported Chinese Lighters:**

GO (piezo)	36001	IT	Gruppo Andeli	CQPE/3	OK	OK	OK	opaque	NC	OK	OK	OK	OK	OK	OK	NC	OK	Not Conform
LUX (flint)	N/A	IT	Gruppo Andeli	CQPE/4	OK	OK	NC	OK	NC	NC [1]	OK	NC	OK	OK	OK	NC	OK	Not Conform
ATOMIC (piezo)	N/A	IT	Gruppo Andeli	CQPE/5	OK	OK	OK	NC	NC	NC	OK	OK	OK	NC	NC	OK	OK	Not Conform
LP (piezo)	39026	FR	Leader Price	CQPE/11	NC	NC	NC	OK	NC	OK	NC	NC	NC	NC	NC	OK	OK	Not Conform
ATOMIC (piezo)	N/A	NL	Albert HEIJN	CQPE/12	NC	NC	OK	opaque	NC	NC	OK	OK	OK	OK	OK	OK	OK	Not Conform
ATOMIC (flint)	N/A	NL	Albert HEIJN	CQPE/13	NC	NC	OK	opaque	OK	OK	NC [1]	NC	OK	NC	OK	OK	OK	Not Conform
UNILITE (piezo)	39021	NL	Albert HEIJN	CQPE/14	OK	OK	OK	NC	NC	OK	NC	OK	OK	OK	OK	OK	OK	Not Conform
ATOMIC (piezo)	39023	NL	Albert HEIJN	CQPE/15	OK	OK	OK	OK	NC	OK	OK	NC	OK	NC	OK	OK	OK	Not Conform
ATOMIC (piezo)	39023	DE	HL-Markt	CQPE/16	NC	OK	OK	opaque	NC	OK	NC	OK	OK	NC	OK	OK	OK	Not Conform
ATOMIC (piezo)	39023	DE	MAL-Markt	CQPE/17	NC	OK	OK	opaque	NC	OK	NC	OK	OK	NC	OK	OK	OK	Not Conform
TOM (piezo)	39001	DE	ALDI	CQPE/18	OK	OK	OK	opaque	NC	NC	OK	OK	OK	NC	NC	OK	OK	Not Conform
MAX (piezo)	39021	FR	FOIR'FOUILLE	CQPE/19	OK	OK	OK	OK	n.i.o.	NC [1]		OK	OK	OK	OK	NC	OK	Not Conform
SLIM (piezo)	39023	FR	LIDL	CQPE/20	NC	NC	NC	OK	OK	NC	NC	NC	NC	NC	NC	OK	OK	Not Conform
ATOMIC (piezo)	39023	DE	PENNY-MARKT	CQPE/21	NC	OK	NC	opaque	OK	OK	NC	NC	OK	NC	NC	OK	OK	Not Conform
ATOMIC (piezo)	39023	DE	PLUS	CQPE/22	NC	OK	OK	opaque	NC	OK	NC	NC	OK	NC	NC	OK	OK	Not Conform
SLIM (piezo)	39023	DE	LIDL	CQPE/23	NC	NC	NC	OK	OK	NC	NC	NC	NC	NC	NC	OK	OK	Not Conform

NC not conform to ISO 9994:2002     
 NC [1] not conform to ISO 9994:2002 & for safety reasons, tests are not carried on  
OK conform to ISO 9994:2002     
 n.i.o. no longer operable  
  not tested

Date of the notarised purchase of the 3000 lighters, from 16 different models, in 5 European countries: **1st semester 2005**  
 Date of testing: **mid 2005**



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- 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	N/A	C	CONCLUSION
BIC J1HL	C	C	C	C	C	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	N/A	C	COMPLY
BIC J3	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
BIC J5	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
BIC J6	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
BIC J8	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
BIC J9	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

- C** Complies with the standard requirement
- NC** Does not comply with the standard requirement
- N/A** This requirement is not applicable

