



For the Attention of: Sandy Chadha

Supreme Imports Limited
4 Beacon Road
Ashburton Park
Asburton Road West, Trafford Park
Manchester
M17 1AF

With Compliments

DATE REPORT ISSUED 06/12/2010

PLEASE FIND ENCLOSED OUR REPORT REFERENCE ALC E : 131474 : 1110

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BUREAU VERITAS CONSUMER PRODUCTS SERVICES UK LTD

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TECHNICAL REPORT

SUBMISSION INFORMATION

ALC. E : 131474 : 1110

DATE JOB BOOKED IN: 23/11/2010

DATE REPORT ISSUED: 06/12/2010

Sample Description: Zinc Batteries
Type AA 4 makes

Applicant: Supreme Imports Limited
4 Beacon Road
Ashburton Park
Asburton Road West, Trafford Park
Manchester
M17 1AF

Applicant Ref. / Order:

TEST INFORMATION

Evaluation To: Comparison of various different brands of battery

Standards Employed: BS EN 60086-1:2001
BS EN 60086-2:1998

CONCLUSIONS: All of the batteries exceeded the Minimum Average Duration (MAD) that was anticipated for the discharge tests. The Panasonic samples attained 156% of MAD, the Golden Power achieved 181%, the Pairdeer achieved 187% and the JCB gave the best results achieving 197% of MAD.
No leakage was recorded from any cell during testing.

Signature:

Paul Harris

AUTHORISED SIGNATORY

BUREAU VERITAS CONSUMER PRODUCTS SERVICES UK LTD

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This certificate should be read in conjunction with the attached report which has been prepared in accordance with and is subject to Bureau Veritas Consumer Products Services UK Ltd's standard Terms & Conditions.

The results and conclusions only apply to the sample(s) submitted and do not guarantee the bulk of the items from which it was obtained to be of equal quality.

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SUMMARY OF EXAMINATION

Introduction:

An examination was requested to ascertain compliance with the requirements as detailed on page one of this report. The following clauses were considered applicable and our findings were as follows:

JCB

BS EN 60086-1:2001

CLAUSE	DESCRIPTION	RESULT	*COMMENTS
4.1.2	BATTERY DIMENSIONS	PASS	
4.1.3.1	CONTACT PRESSURE RESISTANCE	PASS	
4.1.6	MARKING	PASS	See note 1
4.2	PERFORMANCE		
4.2.1	DISCHARGE PERFORMANCE	PASS	See note 2
4.2.2	DIMENSIONAL STABILITY	PASS	
4.2.3	LEAKAGE	PASS	See note 3
4.2.4	OPEN-CIRCUIT VOLTAGE LIMITS	PASS	

Panasonic

BS EN 60086-1:2001

CLAUSE	DESCRIPTION	RESULT	*COMMENTS
4.1.2	BATTERY DIMENSIONS	PASS	
4.1.3.1	CONTACT PRESSURE RESISTANCE	PASS	
4.1.6	MARKING	PASS	
4.2	PERFORMANCE		
4.2.1	DISCHARGE PERFORMANCE	PASS	See note 2
4.2.2	DIMENSIONAL STABILITY	PASS	
4.2.3	LEAKAGE	PASS	See note 3
4.2.4	OPEN-CIRCUIT VOLTAGE LIMITS	PASS	

Pairdeer

BS EN 60086-1:2001

CLAUSE	DESCRIPTION	RESULT	*COMMENTS
4.1.2	BATTERY DIMENSIONS	PASS	
4.1.3.1	CONTACT PRESSURE RESISTANCE	PASS	
4.1.6	MARKING	PASS	
4.2	PERFORMANCE		
4.2.1	DISCHARGE PERFORMANCE	PASS	See note 2
4.2.2	DIMENSIONAL STABILITY	PASS	
4.2.3	LEAKAGE	PASS	See note 3
4.2.4	OPEN-CIRCUIT VOLTAGE LIMITS	PASS	

Golden Power

BS EN 60086-1:2001

CLAUSE	DESCRIPTION	RESULT	*COMMENTS
4.1.2	BATTERY DIMENSIONS	PASS	
4.1.3.1	CONTACT PRESSURE RESISTANCE	PASS	
4.1.6	MARKING	PASS	
4.2	PERFORMANCE		
4.2.1	DISCHARGE PERFORMANCE	PASS	See note 2
4.2.2	DIMENSIONAL STABILITY	PASS	
4.2.3	LEAKAGE	PASS	See note 3
4.2.4	OPEN-CIRCUIT VOLTAGE LIMITS	PASS	

*See Annex II : Comments

DATE: 06/12/2010

ANNEX I: SUBMISSION DESCRIPTION

Sample Description: Zinc Batteries
Type AA 4 makes
JCB, Panasonic, Pairdeer and Golden Power



Figure 1

ANNEX II : ADDITIONAL COMMENTS

- 1 For the JCB batteries only the positive terminal was marked however this was not considered to constitute a hazard.
- 2 The Minimum Average Duration (MAD) for the discharge test for this type of cell under the test conditions applied is 4 hours.

The following MAD values were recorded:

JCB 7.9 hours

Panasonic 6.25 hours

Pairdeer 7.5 hours

Golden Power 7.25 hours

- 3 No leakage was recorded from any cell during testing.