

Supplier's Test Summary

(in accordance with UN Manual of Tests and Criteria Part III, subsection 38.3)

Information about the supplier

Name Pyronix Limited
Address Secure House,
Braithwell Way, Hellaby,
Rotherham, South Yorkshire
S66 8QY. ENGLAND, UK
Phone +44 (0) 1709 700 100
24 hour phone helpline +44 (0) 1978 528 459 (batteries SDS only)
Website www.pyronix.com
Email batteries@pyronix.com

Description of the product

Type: Lithium metal cell and lithium metal batteries for use in alarm security equipment
Physical Description: The below cells/ batteries are coin cells (1, 2, 10); round cylindrical cells (3, 4, 5, 6, 11, 12, 13, 14), square batteries (7, 8) or D round cylindrical cell (9)

Product Classification for Transport (According to UN -DGP)

UN classification and proper shipping name:

UN 3090 (when shipped by themselves)

Proper Shipping Name: Lithium Metal Batteries

or UN 3091 (when shipped with or contained with equipment)

Proper Shipping Name: Lithium metal batteries packed with equipment (for SMOKE-WE/ HEAT-WE) or Lithium metal batteries contained in equipment

Product Test Information

Each object of this declaration has been tested and was found to be compliant with the UN Manual of Test and Criteria, Part III subsection 38.3. This includes all cells and batteries supplied by Pyronix given in the following list:

No	Model	Type	Lithium Content	Mass	Edition of the manual of test and criteria ST/SG/AC.10/11	Test report number	Test Report Date
1	361300167	BATT-KF1215	0.06g	3.3g	Revision 5	1112120050	2013-01-28
2 [#]	361300032	BATT-CR/KF1	0.06g	3.3g	Revision 6	1118060263	2018-06-25
3 [*]	361300034	BATT-CR123A	0.44g	16.3g	Revision 6	1118060263	2018-06-25
4 [*]	361300034	BATT-CR123A	0.49g	16.0g	Revision 5, 2 nd Amendment (2013)	1117030026	2017-04-20
5	361300035	BATT-CR2	0.3g	10.2g	UN38.3: 2009	RZUN2012-1237	2012-02-14
6	In SMOKE-WE 361300055	CR123A - Panasonic	0.6g	17g	4th Amend.1 and 5th Amend.1 edition	CP0015-12	2013/09/26
7	361300179	BATT-RKP1	1.96g	40.5g	Revision 6	1118050016	2016-06-14
8	361300030	BATT-ES1	1.96g	81g	Revision 6	1118050016	2018-06-14
9	361300031	BATT-CR34615D	4g	120g	Revision 5, 1 st Amendment	H04073041121DR~1	2013-04-28
10	361301847	BATT-CR2450R	0.163g	6.2g	Revision 6, Amendment 1	UN38.3-063	2019-04-16
11	In 2 nd Gen SMOKE-WE 361301850	Energizer L91 AA/FR6	<1g	15g	Revision 6	1118120077	2019-01-24
12	In HEAT-WE 361301821	Energizer L91 AA/FR6	<1g	15g	Revision 6	1118120077	2019-01-24
13	In 2nd Gen SMOKE-WE 361301850	CR123A - Panasonic	0.6g	17g	4th Amend.1 and 5th Amend.1 edition	CP0015-12	2013/09/26
14	In HEAT-WE 361301821	CR123A - Panasonic	0.6g	17g	4th Amend.1 and 5th Amend.1 edition	CP0015-12	2013/09/26

[#] Number 2 are exactly the same chemical composition as item 3

^{*} Number 3 has red text/ red logo/ number 4 has a black text/ black logo or labelled Power One or VARTA

List of tests conducted and results

Test Item	Test Result	Test Item	Test Result
T1. Altitude simulation	Pass	T5. External short circuit	Pass
T2. Thermal test	Pass	T6. Crush/ impact	Pass
T3. Vibration	Pass	T7. Overcharge	N/A
T4. Shock	Pass	T8. Forced Discharge	Pass

Test Laboratories used

Number 1, 2, 3, 4, 7, 8, 11, 12

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Name: Shanghai Research Institute of Chemical Industry Testing Center (SRICI)
ADDRESS : West Entrance, No.345 East Yun Ling Road, Shanghai
Telephone : 021-52815377-0713/0714/0717/0718
Website: <http://www.qhs.cn/index.aspx?language=en>
E-mail: msds123@gmail.com

Number 5

Name: Guangzhou MCM Certification & Testing CO., LTD

Address: 1 F No.13, Zhong San Section, Shi Guang Road
Zhong Cun Street, Panyu District
Guangzhou, Guangdong
China
Telephone: 020-34777665-619
Website: <http://www.mcmtek.com/>
Email 24h@mcmtek.com

Number 6, 13, 14

Panasonic Corporation

Address/住所1-1 Matsushita-cho, Moriguchi City, Osaka 570-8511, Japan
Telephone/電話番号+81-6-6994-4560
e-mail un38.3_microbattery@ml.jp.panasonic.com
URL <https://www.panasonic.com/global/home.html>

Number 9

Pony Testing International Group
Address: PONY HQ Building: Building 1, No.66 Jindai Road, Zhongguancun Environmental Protection Park, Haidian District, Beijing, China
Telephone Hotline: 010-83055000/82618116
<http://www.ponytest.com/english/>
E-mail: pony@ponytest.com

Number 10

Tohoku Murata Manufacturing Co., Ltd
1-1 Shimosugishita, Takakura, Hiwada-machi, Koriyama-shi,
Fukushima, 963-0531, Japan
<https://www.murata.com/en-global/group/tohokumurata>
Email tmm-unr-smry@murata.com

Name	Steven Fazey	Issue	02
Authority	Compliance Engineer	Date	11th January, 2021
Signed	<i>Steven Fazey</i>		