



UN38.3

UN38.3 test report

Report No.: MTi20101902-1B1

Date of issue: Nov. 09, 2020

| Sample Name : | Lithium Metal Cylindrical Cell | | |
|---------------|-----------------------------------|--|--|
| Model : | ULCR2 | | |
| Client : | Dantona Industries, Inc. | | |
| Address : | 3051 Burns Ave. Wantagh, NY 11793 | | |





ST/SG/AC.10/11 Rev.6/Amend.1

AMENDMENTS TO THE SIXTH REVISED EDITION OF THE RECOMMENDATIONS ON THE TRANSPORT OF DANGEROUS GOODS, MANUAL OF TEST AND CRITERIA

| Sample Name | Lithium Metal Cylindrical Cell | | | |
|--|---|--|--|--|
| Trade Mark | N/A | | | |
| Sample Model | ULCR2 | | | |
| Manufacturer | Dantona Industries, Inc. | | | |
| Address | 3051 Burns Ave., Wantagh, NY 11793 | | | |
| Testing Laboratory | Shenzhen Microtest Co., Ltd. | | | |
| Manufacturer | 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, | | | |
| | Fuhai Street, Bao'an District, Shenzhen, Guangdong, China. | | | |
| Received Date | 2020-10-24 | | | |
| Tested Date | 2020-10-24-2020-10-06 | | | |
| Test method and criterion : | | | | |
| Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria | | | | |
| (ST/SG/AC.10/11/Rev.6, 38.3/Amend. 1) | | | | |
| | | | | |

Test result: Pass

Tested by (signature):

Checked by (signature):

Approved by (signature):

Henry chen

n leng

Tom Xue



${\rm I}$. Sample Information

| Sample Model | ULCR2 | Rated Capacity/Energy | 800mAh, 2.4Wh |
|----------------------------|-------|---------------------------|---------------|
| Nominal Voltage | 3.0V | Battery Shape | Cylindrical |
| Standard Discharge Current | 1mA | Maximum Discharge Current | 800mA |
| Cell Number | 1PCS | Cell Model | ULCR2 |

$\Pi\, {\ensuremath{{\rm \cdot}}}$ Conclusion

| Standard | ltem | Sample number | Verdict |
|--|------------------------|------------------|---------|
| | Altitude simulation | | PASS |
| | Thermal test | | PASS |
| ST/SG/AC.10/11/Rev.6/Amend.1 | Vibration | C1-C10,C11-C20 | PASS |
| Section 38.3 (UN Recommendations on the | Shock | | PASS |
| Transport of Dangerous Goods, Manual of Tests and Criteria) | External short circuit | | PASS |
| | Impact/-Crush | C21-C25, C26-C30 | PASS |
| | Overcharge | | N/A |
| | Forced discharge | C31-C40 | PASS |
| Possible test case Verdicts: | | | |
| Test case does not apply to the test | object | N/A | |
| Test item does meet the requiremer | nt: | P(ass) | |
| Test item does not meet the require | ment: | F(ail) | |



III、Test Method and Data

Tests T.1 to T.5 shall be conducted in sequence on the same cell or battery. Tests T.6 andT.8 shall be conducted using not otherwise tested cells or batteries. Test T.7 may be conducted using undamaged batteries previously used in tests T.1 to T.5 for purposes of testing on cycled batteries.

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

In order to quantify the mass loss, the following procedure is provided.

mass loss = $(M_1 - M_2) / M_1 \times 100\%$

Where M_1 is the mass before the test and M_2 is the mass after the test, When mass loss does not exceed the values in Table blow, it shall be considered as" no mass loss".

| Mass M of cell or battery | Mass lost limite |
|---------------------------|------------------|
| M<1g | 0.5% |
| 1g≤M≤75g | 0.2% |
| | |

Test T.1: Altitude simulation

(1) Test procedure

Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hours at ambient temperature (20±5)°C.

(2) Requirement

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

Test T.2: Thermal test

(1) Test procedure

Test cells and batteries are to be stored for at least six hours at a test temperature equal to(72 \pm 2)°C, followed by storage for at least six hours at a test temperature equal to(-40 \pm 2)°C. The maximum time interval between test temperature extremes is 30 minutes. This procedure is to be repeated until 10 total cycles are complete, after which all test cells and batteries are to be stored for 24 hours at ambient temperature (20 \pm 5)°C. For large cells and batteries the duration of exposure to the test temperature extremes should be at least 12 hours.

(2) Requirement

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.



Test T.3: Vibration

(1) Test procedure

1 Cells and batteries are firmly secured to the platform of the vibration machine /

2 The vibration :a sinusoidal waveform with a logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes

3 the logarithmic frequency sweep is as follows: from 7Hz a peak acceleration of 1gn is maintained until 18 Hz is reached, The amplitude is then maintained at 0.8mm (1.6mm total excursion) and the frequency increased until a peak acceleration of $8g_n$ occurs (approximately 50Hz), A peak acceleration of $8g_n$ is then maintained until the frequency is increased to 200Hz

4 This cycle repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting position of the cell

(2) Requirement

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire during the test and after the test and if the open circuit voltage of each test cell or battery directly after testing in its third perpendicular mounting position is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

Test T.4: Shock

(1) Test procedure

Test cells and batteries shall be secured to the testing machine by means of a rigid mount which will support all mounting surfaces of each test battery. Each cell or battery shall be subjected to a halfsine shock of peak acceleration of 150gn and pulse duration of 6 milliseconds. Each cell or battery shall be subjected to three shocks in the positive direction followed by three shocks in the negative direction of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks. However, large cells and large batteries shall be subjected to a half-sine shock of peak acceleration of 50gn and pulse duration of 11 milliseconds. Each cell or battery is subjected to three shocks in the positive direction followed by three shocks in the positive direction followed by three shocks in the positive direction of 11 milliseconds. Each cell or battery is subjected to three shocks in the positive direction followed by three shocks in the negative direction of each of three mutually perpendicular mounting positions of the cell for a total of 18 shocks.

(2) Requirement

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

Test T.5: External short circuit

(1) Test procedure

The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches $(57\pm4)^{\circ}$ C and then the cell or battery shall be subjected to a short circuit condition with a total external resistance of less than 0.1 ohm at $(57\pm4)^{\circ}$ C. This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to $(57\pm4)^{\circ}$ C.

(2) Requirement

Cells and batteries meet this requirement if their external temperature does not exceed 170°C and there is no disassembly, no rupture and no fire during the test and within six hours after the test.





Test T.6: Impact /Crush (applicable to cylindrical cells not less than 18.0mm in diameter) / Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells less than 18.0mm in diameter)

(1) Test procedure Impact

The sample cell or component cell is to be placed on a flat smooth surface. A (15.8 ± 0.1) mm diameter, at least 6cm long, or the longest dimension of the cell, whichever is greater, Type 316 stainless steel bar is to be placed across the centre of the sample. A (9.1 ± 0.1) kg mass is to be dropped from a height of (61 ± 2.5) cm at the intersection of the bar and sample in a controlled manner using a near frictionless, vertical sliding track or channel with minimal drag on the falling mass. The vertical track or channel used to guide the falling mass shall be oriented 90 degrees from the horizontal supporting surface. The test sample is to be impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the (15.8 ± 0.1) mm diameter curved surface lying across the centre of the test sample. Each sample is to be subjected to only a single impact.

(2) Test procedure

A cell or component cell is to be crushed between two flat surfaces. The crushing is to be gradual with a speed of approximately 1.5cm/s at the first point of contact. The crushing is to be continued until the first of the three options below is reached.

- (a) The applied force reaches (13±0.78)kN;
- (b) The voltage of the cell drops by at least 100 mV; or
- (c) The cell is deformed by 50% or more of its original thickness.

Once the maximum pressure has been obtained, the voltage drops by 100 mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure shall be released.

A prismatic or pouch cell shall be crushed by applying the force to the widest side. A button/coin cell shall be crushed by applying the force on its flat surfaces. For cylindrical cells, the crush force shall be applied perpendicular to the longitudinal axis.

Each test cell or component cell is to be subjected to one crush only. The test sample shall be observed for a further 6 h. The test shall be conducted using test cells or component cells that have not previously been subjected to other tests.

(3) Requirement

Cells and component cells meet this requirement if their external temperature does not exceed 170°C and there is no disassembly and no fire during the test and within six hours after this test.

Test T.8: Forced discharge

(1) Test procedure

Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12V D.C. power supply at an initial current equal to the maximum discharge current specified by the manufacturer. The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell. Each cell shall be forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere).

(2) Requirement

Primary or rechargeable batteries meet this requirement if there is no disassembly and no fire during the test and within seven days after the test



IV.Test data

Test T1: Altitude simulation

Data

| | Pre-tes | | After test | | | Valtara oftar | Vardiat |
|-----|-------------|----------------|-------------|----------------|------------------|-------------------------------------|---------------------------|
| No | Mass (g) | Voltage (V) | Mass (g) | Voltage (V) | Mass loss (%) | test/Voltage pre- test(%)Mass(g) | Verdict Voltage (V) |
| C1 | 9.566 | 3.42 | 9.566 | 3.41 | 0.000 | 99.71 | PASS |
| C2 | 9.521 | 3.42 | 9.521 | 3.42 | 0.000 | 100.00 | PASS |
| C3 | 9.644 | 3.42 | 9.644 | 3.42 | 0.000 | 100.00 | PASS |
| C4 | 9.615 | 3.41 | 9.615 | 3.41 | 0.000 | 100.00 | PASS |
| C5 | 9.490 | 3.43 | 9.490 | 3.42 | 0.000 | 99.71 | PASS |
| C6 | 9.547 | 3.42 | 9.546 | 3.42 | 0.010 | 100.00 | PASS |
| C7 | 9.771 | 3.40 | 9.771 | 3.40 | 0.000 | 100.00 | PASS |
| C8 | 9.597 | 3.40 | 9.597 | 3.40 | 0.000 | 100.00 | PASS |
| C9 | 9.638 | 3.43 | 9.638 | 3.43 | 0.000 | 100.00 | PASS |
| C10 | 9.698 | 3.42 | 9.697 | 3.42 | 0.010 | 100.00 | PASS |
| C11 | 9.651 | 3.42 | 9.651 | 3.42 | 0.000 | 100.00 | PASS |
| C12 | 9.650 | 3.41 | 9.650 | 3.41 | 0.000 | 100.00 | PASS |
| C13 | 9.556 | 3.42 | 9.555 | 3.42 | 0.010 | 100.00 | PASS |
| C14 | 9.461 | 3.40 | 9.461 | 3.40 | 0.000 | 100.00 | PASS |
| C15 | 9.665 | 3.42 | 9.665 | 3.41 | 0.000 | 99.71 | PASS |
| C16 | 9.661 | 3.42 | 9.661 | 3.42 | 0.000 | 100.00 | PASS |
| C17 | 9.656 | 3.41 | 9.655 | 3.41 | 0.010 | 100.00 | PASS |
| C18 | 9.412 | 3.42 | 9.412 | 3.41 | 0.000 | 99.71 | PASS |
| C19 | 9.676 | 3.42 | 9.676 | 3.42 | 0.000 | 100.00 | PASS |
| C20 | 9.642 | 3.41 | 9.642 | 3.41 | 0.000 | 100.00 | PASS |

#: No leakage, No venting, No disassembly No rupture and no fire

The conditions of the cells of sample No. C1# to C10# are in undischarged state;

The conditions of the cells of sample No. C11# to C20# are in full discharged state;



Test T.2: Thermal test

Data

| | Pre | e-tes | After | test | Voltage after | | Vordiot |
|-----|-------------|----------------|-------------|----------------|------------------|-------------------------------------|---------------------------|
| No | Mass (g) | Voltage (V) | Mass (g) | Voltage (V) | Mass loss (%) | test/Voltage pre- test(%)Mass(g) | Verdict Voltage (V) |
| C1 | 9.566 | 3.41 | 9.565 | 3.41 | 0.010 | 100.00 | PASS |
| C2 | 9.521 | 3.42 | 9.520 | 3.42 | 0.011 | 100.00 | PASS |
| C3 | 9.644 | 3.42 | 9.643 | 3.42 | 0.010 | 100.00 | PASS |
| C4 | 9.615 | 3.41 | 9.615 | 3.41 | 0.000 | 100.00 | PASS |
| C5 | 9.490 | 3.42 | 9.489 | 3.40 | 0.011 | 99.42 | PASS |
| C6 | 9.546 | 3.42 | 9.545 | 3.41 | 0.010 | 99.71 | PASS |
| C7 | 9.771 | 3.40 | 9.770 | 3.39 | 0.010 | 99.71 | PASS |
| C8 | 9.597 | 3.40 | 9.596 | 3.40 | 0.010 | 100.00 | PASS |
| C9 | 9.638 | 3.43 | 9.638 | 3.42 | 0.000 | 99.71 | PASS |
| C10 | 9.697 | 3.42 | 9.697 | 3.41 | 0.000 | 99.71 | PASS |
| C11 | 9.697 | 3.42 | 9.697 | 3.41 | 0.000 | 99.71 | PASS |
| C12 | 9.651 | 3.42 | 9.651 | 3.42 | 0.000 | 100.00 | PASS |
| C13 | 9.650 | 3.41 | 9.649 | 3.40 | 0.010 | 99.71 | PASS |
| C14 | 9.555 | 3.42 | 9.554 | 3.41 | 0.000 | 99.71 | PASS |
| C15 | 9.461 | 3.40 | 9.461 | 3.40 | 0.000 | 100.00 | PASS |
| C16 | 9.665 | 3.41 | 9.663 | 3.41 | 0.021 | 100.00 | PASS |
| C17 | 9.661 | 3.42 | 9.660 | 3.42 | 0.010 | 100.00 | PASS |
| C18 | 9.655 | 3.41 | 9.654 | 3.40 | 0.010 | 99.71 | PASS |
| C19 | 9.412 | 3.41 | 9.412 | 3.41 | 0.000 | 100.00 | PASS |
| C20 | 9.676 | 3.42 | 9.676 | 3.41 | 0.000 | 99.71 | PASS |

#: No leakage, No venting, No disassembly No rupture and no fire

The conditions of the cells of sample No. C1# to C10# are in undischarged state;

The conditions of the cells of sample No. C11# to C20# are in full discharged state;

Test T.3: Vibration



| | Pre-tes | | After test | | | Valtaga aftar | Vardiat |
|-----|-------------|----------------|-------------|----------------|------------------|-------------------------------------|---------------------------|
| No | Mass (g) | Voltage (V) | Mass (g) | Voltage (V) | Mass loss (%) | test/Voltage pre- test(%)Mass(g) | Verdict Voltage (V) |
| C1 | 9.565 | 3.41 | 9.564 | 3.41 | 0.010 | 100.00 | PASS |
| C2 | 9.520 | 3.42 | 9.520 | 3.42 | 0.000 | 100.00 | PASS |
| C3 | 9.643 | 3.42 | 9.643 | 3.42 | 0.000 | 100.00 | PASS |
| C4 | 9.615 | 3.41 | 9.615 | 3.41 | 0.000 | 100.00 | PASS |
| C5 | 9.489 | 3.40 | 9.488 | 3.40 | 0.011 | 100.00 | PASS |
| C6 | 9.545 | 3.41 | 9.545 | 3.41 | 0.000 | 100.00 | PASS |
| C7 | 9.770 | 3.39 | 9.770 | 3.38 | 0.000 | 99.71 | PASS |
| C8 | 9.596 | 3.40 | 9.595 | 3.39 | 0.010 | 99.71 | PASS |
| C9 | 9.638 | 3.42 | 9.638 | 3.42 | 0.000 | 100.00 | PASS |
| C10 | 9.697 | 3.41 | 9.697 | 3.41 | 0.000 | 100.00 | PASS |
| C11 | 9.697 | 3.41 | 9.697 | 3.40 | 0.000 | 99.71 | PASS |
| C12 | 9.651 | 3.42 | 9.650 | 3.41 | 0.010 | 99.71 | PASS |
| C13 | 9.649 | 3.40 | 9.649 | 3.40 | 0.000 | 100.00 | PASS |
| C14 | 9.554 | 3.41 | 9.554 | 3.41 | 0.000 | 100.00 | PASS |
| C15 | 9.461 | 3.40 | 9.460 | 3.40 | 0.011 | 100.00 | PASS |
| C16 | 9.663 | 3.41 | 9.662 | 3.41 | 0.010 | 100.00 | PASS |
| C17 | 9.660 | 3.42 | 9.660 | 3.41 | 0.000 | 99.71 | PASS |
| C18 | 9.654 | 3.40 | 9.653 | 3.40 | 0.010 | 100.00 | PASS |
| C19 | 9.412 | 3.41 | 9.412 | 3.41 | 0.000 | 100.00 | PASS |
| C20 | 9.676 | 3.41 | 9.676 | 3.41 | 0.000 | 100.00 | PASS |

#: No leakage, No venting, No disassembly No rupture and no fire

The conditions of the cells of sample No. C1# to C10# are in undischarged state;

The conditions of the cells of sample No. C11# to C20# are in full discharged state;



| | Pre | e-tes | After | test | | Voltago oftar | Vordiot |
|-----|-------------|----------------|-------------|----------------|------------------|-------------------------------------|---------------------------|
| No | Mass (g) | Voltage (V) | Mass (g) | Voltage (V) | Mass loss (%) | test/Voltage pre- test(%)Mass(g) | Verdict Voltage (V) |
| C1 | 9.564 | 3.41 | 9.563 | 3.41 | 0.010 | 100.00 | PASS |
| C2 | 9.520 | 3.42 | 9.520 | 3.42 | 0.000 | 100.00 | PASS |
| C3 | 9.643 | 3.42 | 9.642 | 3.41 | 0.010 | 99.71 | PASS |
| C4 | 9.615 | 3.41 | 9.615 | 3.41 | 0.000 | 100.00 | PASS |
| C5 | 9.488 | 3.40 | 9.487 | 3.40 | 0.011 | 100.00 | PASS |
| C6 | 9.545 | 3.41 | 9.544 | 3.40 | 0.010 | 99.71 | PASS |
| C7 | 9.770 | 3.38 | 9.770 | 3.38 | 0.000 | 100.00 | PASS |
| C8 | 9.595 | 3.39 | 9.595 | 3.38 | 0.000 | 99.71 | PASS |
| C9 | 9.638 | 3.42 | 9.637 | 3.42 | 0.010 | 100.00 | PASS |
| C10 | 9.697 | 3.41 | 9.697 | 3.41 | 0.000 | 100.00 | PASS |
| C11 | 9.697 | 3.40 | 9.697 | 3.40 | 0.000 | 100.00 | PASS |
| C12 | 9.650 | 3.41 | 9.650 | 3.41 | 0.000 | 100.00 | PASS |
| C13 | 9.649 | 3.40 | 9.649 | 3.40 | 0.000 | 100.00 | PASS |
| C14 | 9.554 | 3.41 | 9.553 | 3.4 | 0.010 | 99.71 | PASS |
| C15 | 9.460 | 3.40 | 9.460 | 3.40 | 0.000 | 100.00 | PASS |
| C16 | 9.662 | 3.41 | 9.662 | 3.40 | 0.000 | 99.71 | PASS |
| C17 | 9.660 | 3.41 | 9.660 | 3.41 | 0.000 | 100.00 | PASS |
| C18 | 9.653 | 3.40 | 9.652 | 3.40 | 0.010 | 100.00 | PASS |
| C19 | 9.412 | 3.41 | 9.412 | 3.41 | 0.000 | 100.00 | PASS |
| C20 | 9.676 | 3.41 | 9.676 | 3.41 | 0.000 | 100.00 | PASS |

#: No leakage, No venting, No disassembly No rupture and no fire

The conditions of the cells of sample No. C1# to C10# are in undischarged state;

The conditions of the cells of sample No. C11# to C20# are in full discharged state;

Test T.5: External short circuit Data



| No. | Peak temperature(°C) | Status |
|-----|--|---|
| C1 | 60.7 | PASS |
| C2 | 59.7 | PASS |
| C3 | 62.8 | PASS |
| C4 | 61.5 | PASS |
| C5 | 62.6 | PASS |
| C6 | 60.8 | PASS |
| C7 | 59.5 | PASS |
| C8 | 61.3 | PASS |
| C9 | 62.4 | PASS |
| C10 | 60.7 | PASS |
| C11 | 60.2 | PASS |
| C12 | 59.6 | PASS |
| C13 | 58.5 | PASS |
| C14 | 58.3 | PASS |
| C15 | 59.8 | PASS |
| C16 | 57.9 | PASS |
| C17 | 58.3 | PASS |
| C18 | 60.7 | PASS |
| C19 | 60.6 | PASS |
| C20 | 59.5 | PASS |
| | No. C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 | No. Peak temperature(°C) C1 60.7 C2 59.7 C3 62.8 C4 61.5 C5 62.6 C6 60.8 C7 59.5 C8 61.3 C9 62.4 C10 60.7 C11 60.2 C12 59.6 C13 58.5 C14 58.3 C15 59.8 C16 57.9 C17 58.3 C18 60.7 C19 60.6 C20 59.5 |

#: No leakage, No venting, No disassembly No rupture and no fire

The conditions of the cells of sample No. C1# to C10# are in undischarged state;

The conditions of the cells of sample No. C11# to C20# are in full discharged state;

Test T.6: Impact /Crush Data



| Νο | Peak temperature(°C) | Status |
|-----|----------------------|--------|
| C21 | 28.9 | PASS |
| C22 | 29.7 | PASS |
| C23 | 30.2 | PASS |
| C24 | 28.7 | PASS |
| C25 | 29.2 | PASS |
| C26 | 29.5 | PASS |
| C27 | 31.9 | PASS |
| C28 | 30.6 | PASS |
| C29 | 29.7 | PASS |
| C30 | 28.8 | PASS |

The cell is deformed by 50% or more of its original thickness.

No disassembly, No fire during, External temperature does not exceed 170°C The conditions of the cells of sample No.C21# to C25# are in undischarged state; The conditions of the cells of sample No.C26# to C30# are in full discharged state;

Test T.8: Forced discharge (for cell)

Data

| No | Verdict |
|-----|---------|
| C31 | PASS |
| C32 | PASS |
| C33 | PASS |
| C34 | PASS |
| C35 | PASS |
| C36 | PASS |
| C37 | PASS |
| C38 | PASS |
| C39 | PASS |
| C40 | PASS |

No disassembly No fire during

The conditions of the cells of sample No.C31# to C40# are in full discharged state;



Photos of The Sample













Main Test Equipment

| No | Code | Instrument Name |
|--|----------|---------------------------------------|
| 1 | MTi-B001 | Low Pressure Chamber |
| 2 | MTi-B002 | High-Low Temperature Chamber |
| 3 | MTi-B006 | Hydraulic Shock Tester |
| 4 | MTi-B007 | Electro-dynamic Vibration Test System |
| 5 | MTi-B010 | Drop Tester |
| 6 | MTi-B013 | Oven |
| 7 | MTi-B021 | Electronic Balance |
| 8 | MTi-B024 | 10V/10A Battery Charger System |
| 9 | MTi-B026 | 25V/10A Battery Charger System |
| 10 | MTi-B029 | Temperature Recorder |
| 11 | MTi-B031 | DC Source |
| 12 | MTi-B032 | DC Source |
| 13 | MTi-B033 | DC Electronic load |
| 14 | MTi-B044 | Temperature Recorder |
| 15 | MTi-B049 | Multimeter |
| 16 | MTi-B052 | Crush Tester |
| 17 | MTi-B053 | Impact Tester |
| Remark:The above equipment are within the calibration cycle. | | |





Important Notice

- 1. The test report is invalid without the official stamp of the lab.
- 2. The test report is invalid without the signature of ratifier, reviewer
- 3. Nobody is allowed to photocopy or partly photocopy this report without written permission of the lab.
- 4. The test report is invalid if illegal transfer, altered or tampering in any media form.
- 5. If any test method is deviation from the designated test method, must be commented in the test data sheet.
- 6. Objections to the test report must be submitted to lab within 15 days.
- 7. The test report is valid for the tested sample only.

****** End of Report ******