

# **GOT**

<u>Product</u> <b>GOT2000, GOT1000</b>					
$\underline{\text{Title}}$ Certificate of UN test for GT11-50BAT					
<u>Abstract</u>					
This document is the Certificate and Summary of UN test for GT11-50BAT.					
(CR2450HR produced by Maxell, Ltd.)					

Mitsubishi Electric Corporation

S200106-9

# LITHIUM CELLS OR BATTERIES TEST SUMMARY AND CERTIFICATION IN ACCORDANCE WITH SUB-SECTION 38.3 OF MANUAL OF TESTS AND CRITERIA

## **BATTERY TRANSPORTION INFORMATION**

Name of cell, battery or product manufacture, as applicable:

Item Name Model name: CR2450HR WK

Internal cell: CR2450HR

Normal voltage 3V Rated capacity 550mAh

Item Description Lithium-metal battery

Cell, battery or product manufacturer's contact information to include address, phone number, email address and website for more information:

5 Takumidai, Ono-Shi, Hyogo, 675-1322 Japan

Phone: (+81) 794-63-8054

e-mail: takashi-kimura@maxell.co.jp Web: http://www.maxell.co.jp

Name of the test laboratory to include address, phone number, email address and website for more information

1 Koizumi, Oyamazaki, Oyamazaki-cho, Otokuni-gun, Kyoto,

618-8525 Japan Phone: (+81) 75-956-4148

email: masahiko-takai@maxell.co.jp Web: http://www.maxell.co.jp

Description of cell or battery to include at a minimum: Lithium ion or Lithium metal cell or battery Mass; Watt-hour rating, or Lithium content, Physical description of the cell/battery; and Model Number

Cell or battery Type Single cell battery

Lithium content 0.15g

Cell or Battery Weight

Physical description Label and insulated tape Test report identification number:

C-1910-13

Date of the test report:

October 15, 2019

List of test conducted and results(i.e. Pass/Fail)

Test number	Designation	Results	Applicable		
			cell	Single cell battery	battery
T-1	Altitude	Not applicable	۷		ν
T-2	Thermal cycling	Not applicable	ν		ν
T-3	Vibration	Not applicable	V		V
T-4	Shock	Not applicable	ν		ν
T-5	External short circuit	Not applicable	۷		ν
T-6	Impact / Crush	Not applicable	V		
T-7	Overcharge	Not applicable		ل ا	ν
T-8	Forced Discharge	Not applicable	V		

Reference to assembled battery testing requirements, if applicable(i.e. 38.3.3 (f)

and 38.3.3 (g)) Not applicable

Reference to the revised edition of the Manual of Tests and

Criteria used and to amendments thereto, if any:

Revision 6, Amendment 1 (2019-

For air transport only: Does the cell or battery comply with the 30% State of Charge?

Not applicable

#### PRODUCT CLASSIFICATION FOR TRANSPORT(According to UN-DGP)

UN Classification,

**UN3090** 

Proper Sipping Name:

Signature with name and title of signatory as an indication of the

validity information provided.

Takashi Kimura / General Manager, Design Department

Signature

Phone: (+81) 794-63-8054

e-mail: takashi-kimura@maxell.co.jp

Date document was generated

January 6, 2020

## **Lithium Metal Batteries**

This document remains valid as long as no changes, modifications or additions are made to the model(s) described in this document, after being transported from a Manufacturer MAXELL, LTD. The model(s) has(have) been classified according to the applicable transport regulations and the UN Manual of Tests and Criteria as of the date of the certification. The model(s) must be packaged, labeled and documented according to country and other international regulations for transportation.

Date document was generated

January 6, 2020

# LITHIUM CELLS OR BATTERIES TEST SUMMARY AND CERTIFICATION IN ACCORDANCE WITH SUB-SECTION 38.3 OF MANUAL OF TESTS AND CRITERIA

## **BATTERY TRANSPORTION INFORMATION**

Name of cell, battery or product manufacture, as applicable: Cell, battery or product manufacturer's contact information to include address, phone number, email address and website for more information: Item Name Model name: CR2450HR Normal voltage 3V 5 Takumidai, Ono-Shi, Hyogo, 675-1322 Japan 550mAh Rated capacity Phone: (+81) 794-63-8054 Item Description Lithium-metal cell e-mail: takashi-kimura@maxell.co.jp Web: http://www.maxell.co.jp Name of the test laboratory to include address, phone number, Test report identification number: Date of the test report: email address and website for more information C-1910-13 October 15, 2019 Maxell. Ltd. 1 Koizumi, Oyamazaki, Oyamazaki-cho, Otokuni-gun, Kyoto, List of test conducted and results(i.e. Pass/Fail) 618-8525 Japan Phone: (+81) 75-956-4148 email: masahiko-takai@maxell.co.jp Applicable Web: http://www.maxell.co.jp Test number Designation Results Single cell cell battery battery T-1 Altitude Pass レ レ Description of cell or battery to include at a minimum; Lithium ion or T-2 Thermal cycling Pass レ レ Lithium metal cell or battery Mass; Watt-hour rating, or Lithium content, Physical description of the cell/battery; and Model Number T-3 Vibration Pass レ レ Cell or battery Type Cell T-4 Shock Pass レ レ External short circuit Pass レ レ T-5 Lithium content 0.15g T-6 Impact / Crush Cell or Battery Weight : 6.7g T-7 Overcharge Not applicable レ Forced Discharge Physical description Stainless steel Reference to assembled battery testing Reference to the revised edition of the Manual of Tests and For air transport only: Does the cell or battery requirements, if applicable(i.e. 38.3.3 (f) Criteria used and to amendments thereto, if any: comply with the 30% State of Charge? and 38.3.3 (g)) Not applicable Revision 6, Amendment 1 (2019-Not applicable PRODUCT CLASSIFICATION FOR TRANSPORT(According to UN-DGP) UN Classification, Proper Sipping Name: **UN3090 Lithium Metal Batteries** Signature with name and title of signatory as an indication of the validity information provided. This document remains valid as long as no changes, modifications or additions are made Takashi Kimura / General Manager, Design Department to the model(s) described in this document, after being transported from a Manufacturer MAXELL, LTD. The model(s) has(have) been classified according to the applicable Signature transport regulations and the UN Manual of Tests and Criteria as of the date of the certification. The model(s) must be packaged, labeled and documented according to country and other international regulations for transportation. Phone: (+81) 794-63-8054 e-mail: takashi-kimura@maxell.co.ip