



The Safety Company

## UN 38.3 TEST SUMMARY REPORT

### MSA Corporate Center

1000 Cranberry Woods Drive  
Cranberry Township, PA 16066  
800.MSA.2222  
www.MSAnet.com

November 4, 2019

### Associated MSA Product(s): PrimaX® IR Calibration Cap

The attached test summary report(s) have been provided by the cell manufacturer(s) and have been prepared in accordance with *The UN Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria, Amendment to the 6<sup>th</sup> Edition, Section 38.3.5 – Lithium cell or battery test summary*. The attached summary report(s) indicates the successful completion of tests as required in the UN Manual of Tests and Criteria for the lithium metal cell(s) that may be used in MSA **PrimaX® IR Calibration Cap**. The attached summary applies to all MSA PrimaX® IR Calibration Cap lithium metal batteries.

The attached test summary report(s) were provided by the cell manufacturer(s). A formal request for the original test data shall be made through the manufacturer of the cell.

Sincerely,

David F. Vogt

Global Environmental Program Manager

**Lithium Battery Test Summary / UN38.3 試験結果要約**

**Product manufacturer**

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

**Test laboratory**

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

**Description of Product / 製品情報**


Model Number/品番 BR1632A  
 Type/タイプ Lithium metal cell  
 Physical description/物理特性 Non-rechargeable, Coin  
 Mass/質量 1.5 g  
 Lithium content/リチウム含有量 0.04 g  
 Watt-hour rating/ワット時定格値 Not applicable  
 Nominal Voltage/公称電圧 3.0 V  
 Nominal Capacity/公称容量 120 mAh

**Test Results / 結果**

Identification number/番号 CP0027-6  
 Date of test report/レポート発行日 2009/10/13  
 Reference edition/参照 UN Manual of Tests and Criteria 4th Amendment 1 amd 2 edition

UN Manual of Tests and Criteria 国連勧告テスト判定基準	Results 結果	Remarks 備考
T1 : Altitude simulation / 高度シミュレーション	Pass / 合格	
T2 : Thermal Test / 温度試験	Pass / 合格	
T3 : Vibration / 振動	Pass / 合格	
T4 : Shock / 衝撃	Pass / 合格	
T5 : External short circuit / 外部短絡	Pass / 合格	
T6 : Impact / 衝突, Crush / 圧壊	Pass / 合格	Impact / 衝突
T7 : Overcharge / 過充電	-	for rechargeable batteries only / 充電式電池のみ
T8 : Forced discharge / 強制放電	Pass / 合格	

Hereby we certify that this model of Lithium battery meets the requirements of each test in the UN Manual of Tests and Criteria Part III, sub-section 38.3.  
 上記テストは国連勧告テスト(Manual of Tests and Criteria, Part III, sub-section 38.3.)に従い確認された結果であることを証明致します。

Signature: 

Name and Title: Kazuyuki Amano / Manager  
 Energy Device Business Division