

# UN 38.3 Test Summary Report

Lithium Cell or Battery Test Summary in Accordance with Section 2.9.4 UN Model Regulations and Sub-section 38.3 of the UN Manual of Tests and Criteria, Part III, subsection 38.3.5

<p>[a] <input checked="" type="checkbox"/> Cell <input type="checkbox"/> Battery <input type="checkbox"/> Product  <input checked="" type="checkbox"/> <b>Tested Type Part #</b> 04224X  <input checked="" type="checkbox"/> <b>Same Type Part #</b> see list</p>	<p>[d] Unique report ID: LS14500 - 12-2018-1</p>
<p>[b] <b>Manufacturer</b>          Saft Civil Electronics Division          Saft SAS          Rue Georges Leclanché, BP1039          86000 Poitiers          T. +33 (0) 5. 49 55 48.48          Lithiumsales.fr@saftbatteries.com          https://www.saftbatteries.com</p>	<p>[e] Report date: 2015-10-14</p>
<p>[c] <b>Test Laboratory</b>          Saft Civil Electronics Division          Saft SAS          Rue Georges Leclanché, BP1039          86000 Poitiers          T. +33 (0) 5. 49 55 48.48          Lithiumsales.fr@saftbatteries.com          https://www.saftbatteries.com</p>	

**Same Type Part Numbers # (all):** All the LS14500 cell versions that just vary by their termination mode and labelling.

[f] (i)  Li-ion  Li-metal.

(iv) **Description:** AA sized LiSOC<sub>2</sub> cell without any protection device.

(ii) Mass: 16 g

(iii)  Watt hour rating or  Lithium content: 0.7 g

(v)  Cell  Battery  Product. Model number/Part number: LS14500

[g] List of Tests Conducted	Result (Pass / Fail / N.A.)	Test record reference
38.3.4.1 T.1: Altitude simulation	Pass	T0336-14
38.3.4.2 T.2: Thermal test	Pass	T0336-14
38.3.4.3 T.3: Vibration	Pass	T0336-14
38.3.4.4 T.4: Shock	Pass	T0336-14
38.3.4.5 T.5: External short circuit	Pass	T0336-14
38.3.4.6 T.6: Impact/Crush (cell only test)	Pass	T0336-14
38.3.4.7 T.7: Overcharge (N.A for Li-metal only)		N.A
38.3.4.8 T.8: Forced discharge (cell only test)	Pass	T0336-14

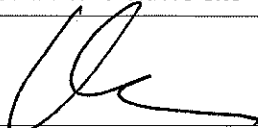
[h] Battery assembly:  Not Applicable.  UN38.3.3 (f)  UN38.3.3 (g)

[i] Test Reference: UN Manual of Tests and Criteria, Part III, sub-section 38.3 ST/SG/AC.10/11/Rev.5

[j] Signatory A. Date: 2018-12-27

Name: Cristophe Serre

Title: Quality Mgr – C.E. Div- Poitiers site

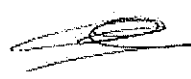
Signature: 



[j] Signatory B. Date: 2018-12-27

Name: Camille Lagrange

Title: Primary Lithium Battery Technical Manager

Signature: 

**Important!** The above signatory / signatories affirm that this document is a true and correct summary of the original individual tests and test data. The original test data is confidential information available to competent State Authorities with valid identification and only upon their formal request. Disclosure of the original test data to any other entity upon its request will be considered by Saft and, should Saft consider this request is with merit, may be subject to the prior execution of a nondisclosure agreement.