

# Prüfungszusammenfassung

## für Lithiumzellen oder -batterien gemäß Unterabschnitt 38.3 des UN-Prüfhandbuchs

### Hinweis zu Transportvorschriften (SV188)

Die im Folgenden aufgeführte Lithiumbatterie/Lithiumzelle ist für den erleichterten  
Gefahrgutversand gemäß **Sonderverordnung 188 ADR** qualifiziert.

# 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

[a]  Cell  Battery  Product  
 **Tested Type Part #** 04224X  
 **Same Type Part #** see list

[d] Unique report ID: LS14500 - 12-2018-3

[e] Report date: 2015-10-14

[b] **Manufacturer**

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

[c] **Test Laboratory**

Saft Civil Electronics Division  
 Saft SAS  
 Rue Georges Leclanché, BP1039  
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**Same Type Part Numbers # (all):** 04229C, 04230D, 04231E, 04268S, 04286L, 04287M, 04295V, 04422P, 04490Q, 04492S, 04653K, 04722D, 04768A, 05644W, 05720A, 05819D, 05877P, 05974Q, 06043M, 06102Y, 06118Q, 06171V, 06208J, 06253F, 06297B, 06380N, 06385T, 06404N, 06406Q, 06492E

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

(iv) **Description:** AA sized LiSOCl<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**

[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: 2020.01.13

Name: Christophe Serre

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

Signature: SERRE Christophe  
 2020.01.13  
 16:20:14 +01'00'



[j] Signatory B. Date: 2020.01.13

Name: Catherine Lepiller

Title: Primary Lithium Battery Technical Manager

Signature: LEPILLER Catherine  
 2020.01.13  
 16:49:48 +01'00'

**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.

# 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

[a]  Cell  Battery  Product  
 **Tested Type Part #** 04225Y  
 **Same Type Part #** see list

[d] Unique report ID: LS14250 - 12-2018-4

[e] Report date: 2015-06-11

[b] **Manufacturer**

Saft Civil Electronics Division  
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 https://www.saftbatteries.com

**Same Type Part Numbers # (all):** 04226Z, 04227A, 04228B, 04267R, 04277B, 04284J, 04491R, 04557L, 04858T, 05586L, 05973P, 06207H, 06252E, 06282L, 06494G, 60010L

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

(iv) **Description:** 1/2AA sized LiSOC<sub>2</sub> cell without any protection device.

(ii) Mass: 9 g

(iii)  Watt hour rating or  Lithium content: 0.3 g

(v)  Cell  Battery  Product. Model number/Part number: LS14250

[g] **List of Tests Conducted**

**Result (Pass / Fail / N.A.)**

**Test record reference**

[g] List of Tests Conducted	Result (Pass / Fail / N.A.)	Test record reference
38.3.4.1 T.1: Altitude simulation	Pass	T0335-14
38.3.4.2 T.2: Thermal test	Pass	T0335-14
38.3.4.3 T.3: Vibration	Pass	T0335-14
38.3.4.4 T.4: Shock	Pass	T0335-14
38.3.4.5 T.5: External short circuit	Pass	T0335-14
38.3.4.6 T.6: Impact/Crush (cell only test)	Pass	T0335-14
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	T0335-14

[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: 2020-02-03

Name: Christophe Serre

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

Signature:



[j] Signatory B. Date: 2020-02-03

Name: Catherine Lepiller

Title: Primary Lithium 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.