

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 #:** LS17330 (UK) 
☐ **Same Type Part #:**

[d] Unique report ID: C00011 (Rev 4)

[e] Report date: 05/11/2019

[b] **Manufacturer**

Saft Civil Electronics Division
 Saft Ltd
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 NE33 2TR, UK
 T. +44(0) 191 456 1451
 Stephen.Clark@saftbatteries.com
<https://www.saftbatteries.com>

[c] **Test Laboratory**

Alphatech Environmental Test Laboratory
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 CB9 8QP
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info@alphatech.co.uk
<https://www.alphatech.co.uk>

☒ **Same Type Part Numbers # (all):** LS17330.STD, 0095-181-019, 0095-182-019, 0095-183-019, 0095-287-019, 0095-356-019, T32/8AA1, T32/8AA1 F, T32/8AA1/M, T32/8AA10, T32/8AA10 F, T32/8AA11, T32/8AA2, T32/8AA6, T32/8AA8, T32/8AA8 C, T32/8AA8 F, T32/8AA9, T32/8AA9 F, XST 5707/1, XST 5792, XST 5820, XST 5930.

[f] (i) ☐ Li-ion ☒ Li-metal.

(iv) **Description:** Primary (non-rechargeable) Lithium-Thionyl Chloride (Li-SOCl₂) "2/3 A" sized LS17330 cell.

(ii) Mass: 14.4g

(iii) ☐ Watt hour rating or ☒ Lithium content: 0.6g.

(v) ☒ Cell ☐ Battery ☐ Product. Model number/Part number: LS17330 (UK)

[g] **List of Tests Conducted**

Result (Pass / Fail / N.A.)

Test record reference

38.3.4.1 T.1: Altitude simulation	Pass	102102
38.3.4.2 T.2: Thermal test	Pass	102102
38.3.4.3 T.3: Vibration	Pass	102102
38.3.4.4 T.4: Shock	Pass	102102
38.3.4.5 T.5: External short circuit	Pass	102102
38.3.4.6 T.6: Impact/Crush (cell only test)	Pass	T0185-13
38.3.4.7 T.7: Overcharge (N.A for Li-metal only)	N.A.	N/A
38.3.4.8 T.8: Forced discharge (cell only test)	Pass	T0185-13

[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. 6th revised edition 2015

[j] Signatory A. Date: 05/11/2019

Name: Stephen Clark

Title: Saft CE, Senior Battery Engineer

Signature:

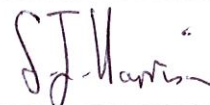



[j] Signatory B. Date: 05/11/2019

Name: Stephen Harrison

Title: Saft CE, Company Secretary

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.