

## 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** 03577R  
 **Same Type Part # see list**

[d] Unique report ID: LSH20 05-2021-3

[e] Report date: 2021.05.07

[b] **Manufacturer**

Saft Connected Smart Energy 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**

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**Same Type Part Numbers # (all):** 03576N, 03749V, 04488N, 04659S, 05041T, 05226L, 05251M, 05339D, 05496S, 05508E, 05564N, 05978U, 06039H, 06064J, 06085F, 06206G, 06231H, 06279H, 06317X, 06328J, 06489B, 60063R, 60086Q, 60130L, 60133P, 60255R, 60339D, 60341F

[f] (i)  Li-ion  Li-metal.(iv) **Description:** Primary D-sized spiral cell with a 5A protection fuse

(ii) Mass: 96 g

(iii)  Watt hour rating or  Lithium content: 3.84 g.(v)  Cell  Battery  Product. Model number/Part number: LSH20[g] **List of Tests Conducted****Result (Pass / Fail / N.A.)****Test record reference**

[g] <b>List of Tests Conducted</b>	<b>Result (Pass / Fail / N.A.)</b>	<b>Test record reference</b>
38.3.4.1 T.1: Altitude simulation	Pass	T0032-21
38.3.4.2 T.2: Thermal test	Pass	T0032-21
38.3.4.3 T.3: Vibration	Pass	T0032-21
38.3.4.4 T.4: Shock	Pass	T0032-21
38.3.4.5 T.5: External short circuit	Pass	T0032-21
38.3.4.6 T.6: Impact/Crush (cell only test)	Pass	T0032-21
38.3.4.7 T.7: Overcharge (N.A for Li-metal only)	NA	NA
38.3.4.8 T.8: Forced discharge (cell only test)	Pass	T0032-21

[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.7

[j] Signatory A. Date: 2022.12.14

Name: F.Perrodo

Title: Quality Eng – C.S.E. Div- Poitiers site

Signature:



[j] Signatory B. Date: 2022.12.14

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.