

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] <input type="checkbox"/> Cell <input checked="" type="checkbox"/> Battery <input type="checkbox"/> Product <input checked="" type="checkbox"/> Tested Type Part #: 4932280162 <input type="checkbox"/> Same Type Part #:
[b] Manufacturer Saft Connected Smart Energy Division Friemann & Wolf Batterietechnik GmbH Industriestr. 22 63654 Büdingen, Germany T. +49 (0) 6042 954 150 info@friemann-wolf.de https://www.saftbatteries.com/

[d] Unique report ID: UB654/22
[e] Report date: 2022.11.08
[c] Test Laboratory Saft Connected Smart Energy Division Friemann & Wolf Batterietechnik GmbH Industriestr. 22 63654 Büdingen, Germany T. +49 (0) 6042 954 150 info@friemann-wolf.de https://www.saftbatteries.com/

[f] (i) <input checked="" type="checkbox"/> Li-ion <input type="checkbox"/> Li-metal (iv) Description: 3.VL34570 (BB-X600)-Batterie (wiederaufladbar) NSN: 6140-12-364-1133 TKZ: 4A1808 Part No.: 4932280162 Approved acc. to: VG 96932-3 Secondary (rechargeable) lithium-ion (Li-ion) battery assembled from 3 (three) "D" sized VL34570 cells connected in series with electronic board in a plastic housing (ii) Mass: 430 g (iii) <input checked="" type="checkbox"/> Watt hour rating or <input type="checkbox"/> Lithium content: 55 Wh (v) <input type="checkbox"/> Cell <input checked="" type="checkbox"/> Battery <input type="checkbox"/> Product. Model number/Part number: 4932280162

[g] List of Tests Conducted	Result (Pass / Fail / N.A.)	Test record reference
38.3.4.1 T.1: Altitude simulation	Pass	UB654/22, page 2
38.3.4.2 T.2: Thermal test	Pass	UB654/22, page 2
38.3.4.3 T.3: Vibration	Pass	UB654/22, page 2
38.3.4.4 T.4: Shock	Pass	UB654/22, page 2
38.3.4.5 T.5: External short circuit	Pass	UB654/22, page 2
38.3.4.6 T.6: Impact/Crush (cell only test)	Pass	UB654/22, page 2
38.3.4.7 T.7: Overcharge (N.A for Li-metal only)	Pass	UB654/22, page 3
38.3.4.8 T.8: Forced discharge (cell only test)	Pass	UB654/22, page 3

[h] Battery assembly: <input checked="" type="checkbox"/> Not Applicable. <input type="checkbox"/> UN38.3.3 (f) <input type="checkbox"/> UN38.3.3 (g)
[i] Test Reference: UN Manual of Tests and Criteria, Part III, sub-section 38.3, 7 th revised edition Friemann & Wolf Batterietechnik GmbH is certified according to ISO 9001 and thereby manufactures all cells and batteries under a quality management system as required by IATA, ADR, RID and IMDG transport rules.

[j] Signatory A. Name: Dr. Torsten Oekermann Title: Product Engineering Manager Signature.



[j] Signatory B. Name: Joachim Kirchner Title: Quality Manager Signature.
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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.