

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 #: 4933031142
 Same Type Part #:

[b] **Manufacturer**
 Saft Civil Electronics 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: UB650/13

[e] Report date: 2013.05.03

[c] **Test Laboratory**
 Saft Civil Electronics Division
 Friemann & Wolf Batterietechnik GmbH
 Industriestr. 22
 63654 Büdingen, Germany
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[f] (i) Li-ion Li-metal
 (iv) **Description:** **3.CR123A-Batterie**
 NSN: 6135-12-312-8596
 TKZ: 4A1205
 Part No.: 4933031142
 Approved acc. to: VG 96915-164
 Primary (non-rechargeable) lithium-manganese dioxide (Li-MnO₂) battery assembled from 3 (three) Panasonic CR123A cells connected in series with a PTC in a shrink sleeve.

(ii) Mass: max. 54 g
 (iii) Watt hour rating or Lithium content: 1.68 g
 (v) Cell Battery Product. Model number/Part number: 4933031142

[g] List of Tests Conducted	Result (Pass / Fail / N.A.)	Test record reference
38.3.4.1 T.1: Altitude simulation	Pass	UB650/13, page 2
38.3.4.2 T.2: Thermal test	Pass	UB650/13, page 3
38.3.4.3 T.3: Vibration	Pass	UB650/13, page 4
38.3.4.4 T.4: Shock	Pass	UB650/13, page 5
38.3.4.5 T.5: External short circuit	Pass	UB650/13, page 6
38.3.4.6 T.6: Impact/Crush (cell only test)	Pass	UB650/13, page 7
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	UB650/13, page 8

[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, 5th revised edition, Amend. 2
 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. Date: 2021.06.22
 Name: Dr. Torsten Oekermann
 Title: Product Engineering Manager
 Signature.



[j] Signatory B. Date: 2021.06.22
 Name: Olaf G. Lichtlein
 Title: General 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.