

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 checked="" type="checkbox"/> Cell <input type="checkbox"/> Battery <input type="checkbox"/> Product <input checked="" type="checkbox"/> Tested Type Part #: 45025000000 <input checked="" type="checkbox"/> Same Type Part #: 4104090203
[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://friemann-wolf.de/ https://www.saftbatteries.com/

[d] Unique report ID: UB633/03
[e] Report date: 2003.08.28
[c] Test Laboratory Saft Civil Electronics Division Friemann & Wolf Batterietechnik GmbH Industriestr. 22 63654 Büdingen, Germany T. +49 (0) 6042 954 150 info@friemann-wolf.de https://friemann-wolf.de/ https://www.saftbatteries.com/

<input checked="" type="checkbox"/> Same Type Part Numbers # (all): 4104090203, 4104090206, 4104090503, 4104090506, 0095-797-019

[f] (i) <input type="checkbox"/> Li-ion <input checked="" type="checkbox"/> Li-metal (iv) Description: Primary (non-rechargeable) "fat DD" sized lithium-manganese dioxide (Li-MnO ₂) cell with stainless steel housing and cover vent, type M62 , with PTC SRP 420 protection fuse (ii) Mass: 355 g (iii) <input type="checkbox"/> Watt hour rating or <input checked="" type="checkbox"/> Lithium content: 11.6 g (v) <input checked="" type="checkbox"/> Cell <input type="checkbox"/> Battery <input type="checkbox"/> Product. Model number/Part number: 45025000000

[g] List of Tests Conducted	Result (Pass / Fail / N.A.)	Test record reference
38.3.4.1 T.1: Altitude simulation	Pass	UB633/03, page 3
38.3.4.2 T.2: Thermal test	Pass	UB633/03, page 5
38.3.4.3 T.3: Vibration	Pass	UB633/03, page 7
38.3.4.4 T.4: Shock	Pass	UB633/03, page 8
38.3.4.5 T.5: External short circuit	Pass	UB633/03, page 9
38.3.4.6 T.6: Impact/Crush (cell only test)	Pass	UB633/03, page 10
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	UB633/03, page 11

[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, 3 rd revised edition, Amend. 1 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: 2021.07.06 Name: Dr. Torsten Oekermann Title: Product Engineering Manager Signature.
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[j] Signatory B. Date: 2021.07.06 Name: Olaf G. Lichtlein Title: General 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.