

# 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 #:** 4437270120  
 **Same Type Part #:**

[b] **Manufacturer**  
 Saft Connected Smart Energy (CSE) Division  
 Friemann & Wolf Batterietechnik GmbH  
 Industriestr. 22  
 63654 Büdingen, Germany  
 T. +49 (0) 6042 954 150  
[info@friemann-wolf.de](mailto:info@friemann-wolf.de)  
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[d] Unique report ID: MIL120.1025

[e] Report date: 2025.10.30

[c] **Test Laboratory**  
 Saft Connected Smart Energy (CSE) Division  
 Friemann & Wolf Batterietechnik GmbH  
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[f] (i)  Li-ion  Li-metal  
 (iv) **Description: SEM 91/93-Batterie**  
 NSN: 6135-12-355-0737  
 TKZ: 4A0215  
 Part No.: 4437270120  
 Approved acc. to: TL 6135-0013  
 Primary (non-rechargeable) lithium-manganese dioxide (Li-MnO<sub>2</sub>) battery assembled from 3 (three) "C" sized M52 HR cells connected in series in a plastic housing

(ii) Mass: 208 g  
 (iii)  Watt hour rating or  Lithium content: 4.8 g  
 (v)  Cell  Battery  Product. Model number/Part number: 4437270120

[g] List of Tests Conducted	Result (Pass / Fail / N.A.)	Test record reference
38.3.4.1 T.1: Altitude simulation	Pass	UB625/03, page 3
38.3.4.2 T.2: Thermal test	Pass	UB625/03, page 4
38.3.4.3 T.3: Vibration	Pass	UB625/03, page 5
38.3.4.4 T.4: Shock	Pass	UB625/03, page 7
38.3.4.5 T.5: External short circuit	Pass	UB625/03, page 8
38.3.4.6 T.6: Impact/Crush (cell only test)	Pass	UB625/03, page 9
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	UB625/03, page 11

[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, 3<sup>rd</sup> 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.  
 Name: Dr. Torsten Oekermann  
 Title: Product Engineering Manager  
 Signature.



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