

UN 38.3 TEST SUMMARY REPORT

MSA Corporate Center

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October 24, 2019

Associated MSA Product(s): MSA Altair® Single Gas Detectors

The attached test summary report has been prepared in accordance with *The UN Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria, Amendment to the 6th Edition, Section 38.3.5 – Lithium cell or battery test summary. The attached summary indicates the successful completion of tests as required in the UN Manual of Tests and Criteria for the lithium metal cell used in the MSA Altair® Single Gas Detectors. The attached summary applies to all MSA Altair® Single Gas Detector lithium ion batteries.*

The original test summary was provided by the cell manufacturer. A formal request for the original test data shall be made through the manufacturer of the cell.

Sincerely,

David F. Vogt

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Global Environmental Program Manager

The Safety Company

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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, Sub-section 38.3.5.

[a] Manufacturer EEMB CO., LTD.
[b] Manufacturer Contact Information Unit 12-13/F, Delta House
3 on Yin Street
Sha Tin, Hong Kong
T: 852-58082720 www.eemb.com
www.eemb.com

GTIHEA	
204 Xingang West Road	

[c] Test Laboratory

204 Xingang West Road Guangzhou 510300 P.R. China T: 0086-20-84462287 www.gtihea.com

[d] Test Repor	t ID#	JN06-001		[e] Test R	Report Date	2006	.07.25
[f] Description	i: Small lit	thium metal cell, 3	3.6 V, 2100	mAh utiliz	ed in the follo	owing	MSA
products: MSA	Altair® S	ingle Gas Detect	ors				
□Lithium Ion ⊠Lithium Metal							
Mass (g)	18.0 g	Watt-hour	Rating	7.56	Lithium Con	tent	0.6 g
Part Number(s)	1006	88082 – Battery, I	_I, 2/3A, Bo	bbin Cell (EEMB p/n El	R1733	5-FT)

[g] List of Test Conducted	Result (Pass / Fail / N/A)
38.3.4.1 T.1: Altitude simulation	Pass
38.3.4.2 T.2: Thermal test	Pass
38.3.4.3 T.3: Vibration	Pass
38.3.4.4 T.4: Shock	Pass
38.3.4.5 T.5: External short circuit	Pass
38.3.4.6 T.6: Impact/Crush (cell only)	Pass
38.3.4.7 T.7: Overcharge (packs only)	N/A
38.3.4.8 T.8: Forced discharge (cell only)	Pass
[h] Battery Assembly: ⊠Not Applicable □UN38	3.3.3 (f) UN38.3.3 (g)
[i] Test Reference: Manual of Tests and Criteria Ar	nendments, 3rd Edition, Section 38.3

[j] Signatory – Global Environmental Health and Safety
Date: October 24, 2019
Name: David F. Vogt
Title: Global Environmental Program Manager
Signature:
DwyVyt

Notice – The above signatories affirm that this UN 38.3 Test Summary Report is an accurate and correct summary of the original tests. The original test data is confidential information available to competent Authorities with valid identification and only upon the review by MSA of a written formal request. Disclosure of original test data may be subject to the execution of a nondisclosure agreement.