

Lithium battery test summary and supplier inquiry

In accordance with sub-section 38.3 of Manual of Tests and Criteria

Description	
Name / Description of battery	Weinmann ACCUVAC Pro
Name / Description of the cells inside the battery	US18650VTC6
Type of battery	Lithium ion battery
Model numbers	40404 / ACCUVAC Pro

Manufacturer of battery	
Name	FSM AG
Address	Erich-Rieder-Straße 2, 79199 Kirchzarten, Germany
Phone	0049 7661 98550
Email	info@fsm.ag
Website	www.fsm.ag

Manufacturer of the equipment (if the battery is contained in equipment)	
Name	
Address	
Phone	
Email	
Website	

Test laboratory of battery	
Name	PRIMARA Test- und Zertifizier-GmbH
Address	Gewerbestraße 28, 87600 Kaufbeuren, Germany
Phone	0049 8341 997260
Email	info@kiwa.de
Website	www.kiwa.com/de/de/primara

Description	
Unique test report identification number	18PP354-02_1
Date of test report	2019-03-05
Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto	UN Manual of Tests and Criteria, Part III; Section 38.3, Lithium metal and lithium ion batteries (ST/SG/AC.10/11/Rev.6)

Description of battery

Parameters	
Mass in gram (g)	410 g
Indicate watt-hour rating (Wh)	86.4 Wh

Physical description of battery
Solid, 73 mm x 75 mm x 43 mm

Tests and results

List of tests conducted and results	N/A	pass	fail
T1 - Altitude simulation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T2 - Thermal Test	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T3 - Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T4 - Shock	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T5 - External Short Circuit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T6 - Impact - for cylindrical cells having a diameter of at least 18 mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T6 - Crush - for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18 mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T7 - Overcharge	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T8 - Forced Discharge, only valid for cells	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

UN 38.3 Test Confirmation for the cells inside the battery

When no separate document for the cells is provided, this confirms that the cells inside the battery have successfully passed the UN 38.3 test. In this case, under checkpoint above the T6 and T8 must be marked as „passed“ and here „Cell UN 38.3 Test confirmed“ needs to be ticked.

☒ Cell UN 38.3 Test confirmed

☐ Cell UN 38.3 Test not confirmed

Additional supplier inquiry

Quality management system for manufacturing batteries

Yes

No

Does the manufacturer of the battery manufacture the products based on a documented quality management system according to transport regulations?

☒
☐

Is the following parameter exceeded?

Yes

No

Lithium ion battery: more than 100 Wh

☐
☒

When checkpoint above has been ticked "Yes", the following checkpoints need to be answered.

N/A

Yes

No

Does each battery incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?

☐
☐

Is each battery equipped with an effective means of preventing external short circuits?

☐
☐

Is each battery containing cells or series of cells connected in parallel equipped with effective means as necessary to prevent dangerous reverse current flow (e.g. diodes, fuses, etc.)?

☐
☐
☐

Only in air transport: State of Charge (SoC) für UN 3480 Lithium ion batteries and lithium polymer batteries

N/A

Yes

No

State of Charge (SoC) max. 30 %

☐
☒
☐

Kirchzarten, 04.12.2019



Kristine Østevold, Project Manager

Place and date of issue

Name and signature of authorized person