

## Lithium cells or batteries test summary according to UN38.3

Battery Manufacturer:				UN38.3 Test Lab:	
Jauch Quartz GmbH In der Lache24 D-78056 Villingen-Schwenningen Germany +49 7720 945-0 www.jauch.com, info@jauch.com				Vkan Certification & Testing Co., Ltd., No.3, Tiantaiyi Road, Guangzhou, China <u>www.cvc.org.cn</u> <u>office@cvc.org.cn</u>	
Description of cell or battery:Cell/battery type: $\boxtimes$ Lithium metal $\square$ Lithium-ionCell or battery: $\boxtimes$ cell $\square$ batteryModel name: $\square$ batteryCR 2025 Opel part-no.90493279 (J), 234000CR 2032 Opel part-no.90541381 (J), 247073CR 1220 Opel part-no.93182567, 233999CR 2016 Opel part-no.93182568, 234002CR 1620 Opel part-no.93195613, 234001Voltage:3.0VCapacity:40 - 240mAhEnergy:n/aLithium content:0.012 - 0.065gWeight of cell/battery:0.75 - 2.9g				Test report-no.:   RZUN2018-4159   RZUN2018-4153   RZUN2018-4156   RZUN2018-4158   RZUN2018-4160   Date of test reports:   Jan. 08, 2019	
List of tests (result: pass/fail):				For air transportation only:	
Test number	Test item	Result	Remarks		
T-1	Altitude	pass		State of charge □ max. 30% ⊠ not applicable	
T-2	Thermal cycling	pass			
T-3	Vibration	pass			
T-4	Shock	pass			
T-5	External short circuit	pass			
T-6	Impact /Crush	pass	for cell only		
T-7	Overcharge	N/A			
T-8	Forced Discharge	pass	for cell only		

Headquarters: Jauch Quartz GmbH  $\cdot$  In der Lache 24  $\cdot$  78056 Villingen-Schwenningen  $\cdot$  Germany Registry court: Freiburg HRB 602574, Managing Director: Thomas Jauch



Test results in accordance with the UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Test and Criteria ST/SG/AC.10/11 Rev.6, Amend. 1, 38.3. Cell manufacturing as well as battery assembly is done under the quality assurance program of ISO9001:2008.

This document remains valid as long as no changes, modifications or additions are made to the model(s) described in this document. The model(s) has (have) been classified according to the applicable transport regulation and the UN Manual of Test and Criteria as of the date of the certification. The model(s) must be packed, labelled and documented according to country and other international regulations for transportation.

Name / Title of Signatory / Date

Sönke Zacher Manager Sept. 18, 2019