Supplier's Test Summary
in accordance with UN Manual of Tests and Criteria
Part III, subsection 38.3

Information about the manufacturer

Name	VARTA Microbattery GmbH
Address	VARTA-Platz 1 73479 Ellwangen Germany
Phone	+49 7961 921-0
E-mail	info@varta-microbattery.com
Website	www.varta-microbattery.com

Description of the product

Type	Lithium metal cell
Physical description	Primary lithium metal button cell

Product test information

Each object of this declaration has been tested and was found to be compliant with the UN Manual of Test and Criteria, Part III, subsection 38.3. This includes all single cells and battery assemblies containing not more than one cell of those given in the following list.

Model	Mass	Lithium content	Edition of the manual of test and criteria ST/SG/AC.10/11	Test report number	Test report date
CR2450	6.2 g	0.17 g	Rev. 6 / Amend. 1	1120060503	2020-07-29
CR2450-N	6.9 g	0.17 g	Rev. 6	LJKJ20180405Z01	2018-04-26
CR2450-P	6.2 g	0.17 g	Rev. 7	1122110385	2022-12-26

List of tests conducted and results

Test Item	Test Result	Test Item	Test Result
T.1 Altitude simulation	pass	T.5 External short circuit	pass
T.2 Thermal test	pass	T.6 Impact/Crush	pass
T.3 Vibration	pass	T.7 Overcharge	N/A
T.4 Shock	pass	T.8 Forced Discharge	pass

VARTA Microbattery GmbH
VARTA-Platz 1
73479 Ellwangen
Germany

internal

Test laboratories

The tests were performed by the following test laboratory.

Name	Shanghai Research Institute of Chemical Industry Testing Centre (SRICI)	Name	Guangzhou MCM Certification and Testing Co., Ltd
Address	No. 345 Yunling East Road, Pudong Shanghai 200062 China	Address	1 F No. 13, Zhong San Section, Shi Guang Road, Panyu District, Guanzhou Citiy Guangdong Province, China
Phone	+86 21 52569800	Phone	+86 20 34777662
E-mail	msds123@gmail.com	E-mail	markmiao@mcmtek.com
Website	www.ghs.cn	Website	www.mcmtek.com

Additional information

In original VARTA packaging the products comply with the following special provisions of international transport regulations:

- IATA DGR 64th Edition: Packing Instruction 968 Section IB
  (Transportations of cells or batteries packed with equipment or contained in equipment have to follow Packing Instructions 969 or 970 Section II.)
- ADR/RID/ADN/IMDG Code: Special Provision 188
- DOT / 49 CFR: §173.185 (c)

The products have been manufactured under a quality management program according to IATA DGR clause 3.9.2.6.1 (e), ADR clause 2.2.9.1.7 e), and IMDG code clause 2.9.4.5.

Ellwangen, 2023-05-23

Place and date of issue

VARTA Microbattery GmbH
VARTA-Platz 1
D-73479 Ellwangen
Germany
VARTA

Company stamp

Benno Diemer
Risk Prevention

Signature, name and title

VARTA Microbattery GmbH
VARTA-Platz 1
73479 Ellwangen
Germany