

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<br>73479 Ellwangen<br>Germany |
| Phone   | +49 7961 921-0                              |
| E-mail  | info@varta-microbattery.com                 |
| Website | www.varta-microbattery.com                  |

# Description of the product

TypeLithium metal cellPhysical descriptionPrimary 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<br>content | Edition of the manual of test and criteria ST/SG/AC.10/11 | Test report number | Test report date |
|----------|-------|--------------------|---|--------------------|------------------|
| CR2032   | 3 g   | 0.07 g             | Rev. 6 / Amend. 1   | 1120060501         | 2020-07-29       |
| CR2032-P | 3 g   | 0.07 g             | Rev. 6 / Amend. 1   | 1120050333         | 2020-06-28       |
| CR2032-N | 3.2 g | 0.064 g            | Rev. 6  | LJKJ20180112U01    | 2018-02-02       |

# List of tests conducted and results

| Test Item Test Result   |      | Test Item                  | Test Result |
|-------------------------|------|----------------------------|-------------|
| T1. Altitude simulation | pass | T5. External short circuit | pass        |
| T2. Thermal test pass   |      | T6. Impact/Crush           | pass        |
| T3. Vibration           | pass | T7. Overcharge             | N/A         |
| T4. Shock pass          |      | T8. Forced Discharge       | pass        |

## **Test laboratories**

The tests were performed by one of the following test laboratories.

| Name    | Shanghai Research Institute of Chemical Industry<br>Testing Centre (SRICI) | Name    | Guangzhou MCM Certification and Testing Co., Ltd  |
|---------|--|---------|---|
| Address | No. 345 Yunling East Road, Pudong<br>Shanghai 200062<br>China              | Address | 1 F No. 13, Zhong San Section, Shi Guang Road,<br>Panyu District, Guanzhou Citiy<br>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  |



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# Additional information

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

- IATA DGR: 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, 2020-08-04

Place and date of issue

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

Company stamp

i.V. With talk

Dr. Sebastian Röhler Manager Product Compliance

Signature, name and title