

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Cell / Battery

Name AAA  
Type Lithium metal cell  
Physical description Primary lithium metal cell

## Manufacturer

Name VARTA Consumer Batteries GmbH & Co. KGaA  
Address Alfred-Krupp-Str 9  
73479 Ellwangen, Germany  
Phone +49 (0) 7961 830  
Email info@eu.spectrumbrands.com  
Website https://www.varta-consumer.com

## Test laboratory

Name Pony Testing International Group  
Address Building 1, Court 66, Jindai Road, Zhongguancun Environmental Protection  
Park, Haidian District, Beijing  
Phone +86 (0) 4008 195 688  
Email pony@ponytest.com  
Website http://www.ponytest.com

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6103	7,43	0,5	ST/SG/AC.10/11/Rev.5 /Amend.1 & Amend.2	I01223012421C ~1	27.01.2014

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed



Signature  
(Uwe Knödler, Manager Quality & NPd)

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Cell / Battery

Name AA  
Type Lithium metal cell  
Physical description Primary lithium metal cell

## Manufacturer

Name VARTA Consumer Batteries GmbH & Co. KGaA  
Address Alfred-Krupp-Str 9  
73479 Ellwangen, Germany  
Phone +49 (0) 7961 830  
Email info@eu.spectrumbrands.com  
Website https://www.varta-consumer.com

## Test laboratory

Name Vkan Certification & Testing Co., Ltd.  
Address No. 3, Tiantaiyi Road, Kaitai Avenue,  
Science City, Guangzhou, 510663, China  
Phone +86 (0) 20 322 93 888  
Email office@cvc.org.cn  
Website http://www.cvc.org.cn

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6106	15,2	0,95	ST/SG/AC.10/11/Rev.5 /Amend.2	RZUN2017-0433	16.03.2017

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed



Signature  
(Uwe Knödler, Manager Quality & NPd)

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Cell / Battery

Name CP9V  
Type Lithium metal cell  
Physical description Primary lithium metal cell

## Manufacturer

Name VARTA Consumer Batteries GmbH & Co. KGaA  
Address Alfred-Krupp-Str 9  
73479 Ellwangen, Germany  
Phone +49 (0) 7961 830  
Email info@eu.spectrumbrands.com  
Website https://www.varta-consumer.com

## Test laboratory

Name Shanghai Research Institute of Chemical Industry Testing Co., Ltd.  
Address No. 345 East Yunling Road,  
Shanghai, 200062, China  
Phone +86 (0) 21 317 65 555  
Email zmh@ghs.cn  
Website www.ghs.cn

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6122	40,1	1,0	ST/SG/AC.10/11/Rev.6	1118070226	29.08.2018

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed

CONSUMER BATTERIES  
Ellwangen, 09.08.2019  
Place, date  
VARTA Consumer Batteries GmbH & Co. KGaA  
Alfred-Krupp-Str. 9 | 73479 Ellwangen | Germany  
Company stamp

Signature  
(Uwe Knödler, Manager Quality & NPD)

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Cell / Battery

Name CR1025  
Type Lithium metal cell  
Physical description Primary lithium metal cell

## Manufacturer

Name VARTA Consumer Batteries GmbH & Co. KGaA  
Address Alfred-Krupp-Str 9  
73479 Ellwangen, Germany  
Phone +49 (0) 7961 830  
Email info@eu.spectrumbrands.com  
Website https://www.varta-consumer.com

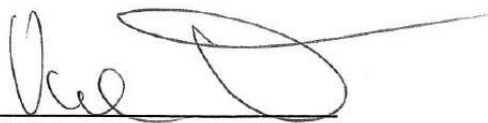
## Test laboratory

Name SGS-CSTC Standards Technical Services Co., Ltd.  
Address No. 588 West Jindu Road, Songjiang District, Shanghai,  
Shanghai Municipality, 201612, China  
Phone +86 (0) 21 6191 5016  
Email sgs.china@sgs.com  
Website www.sgsgroup.com.cn

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6125	0,6	0,009	ST/SG/AC.10/11/Rev.6	SHES170300146 501	12.06.2017

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed



  
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(Uwe Knödler, Manager Quality & NPD)

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Cell / Battery

Name CR1/3N  
Type Lithium metal cell  
Physical description Primary lithium metal cell

## Manufacturer

Name VARTA Consumer Batteries GmbH & Co. KGaA  
Address Alfred-Krupp-Str 9  
73479 Ellwangen, Germany  
Phone +49 (0) 7961 830  
Email info@eu.spectrumbrands.com  
Website https://www.varta-consumer.com

## Test laboratory

Name VARTA Microbattery GmbH  
Address Daimlerstraße 1, 73479 Ellwangen, Germany  
Phone +49 (0) 7961 9210  
Email info@varta-microbattery.com  
Website www.varta-microbattery.com

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6131	3,0	0,06	ST/SG/AC.10/11/Rev.5 /Amend.1	2016-03-16-02	16.03.2016

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed

  
CONSUMER BATTERIES  
*Ellwangen, 16.03.2019*  
VARTA Consumer Batteries GmbH & Co. KGaA  
Alfred-Krupp-Str. 9 | 73479 Ellwangen | Germany  
Company stamp

  
Signature  
(Uwe Knödler, Manager Quality & NPd)

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Cell / Battery

Name 2CR5  
Type Lithium metal cell  
Physical description Primary lithium metal cell

## Manufacturer

Name VARTA Consumer Batteries GmbH & Co. KGaA  
Address Alfred-Krupp-Str 9  
73479 Ellwangen, Germany  
Phone +49 (0) 7961 830  
Email info@eu.spectrumbrands.com  
Website https://www.varta-consumer.com

## Test laboratory

Name Shanghai Research Institute of Chemical Industry Testing Co., Ltd.  
Address No. 345 East Yunling Road, Shanghai, 200062, China  
Phone +86 (0) 21 317 65 555  
Email zmh@ghs.cn  
Website www.ghs.cn

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6203	36,13	0,77	ST/SG/AC.10/11/Rev.6	1118070224	30.08.2018

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed



Signature  
(Uwe Knödler, Manager Quality & NPd)

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Cell / Battery

Name CR-P2  
Type Lithium metal cell  
Physical description Primary lithium metal cell

## Manufacturer

Name VARTA Consumer Batteries GmbH & Co. KGaA  
Address Alfred-Krupp-Str 9  
73479 Ellwangen, Germany  
Phone +49 (0) 7961 830  
Email info@eu.spectrumbrands.com  
Website https://www.varta-consumer.com

## Test laboratory

Name Shanghai Research Institute of Chemical Industry Testing Co., Ltd.  
Address No. 345 East Yunling Road, Shanghai, 200062, China  
Phone +86 (0) 21 317 65 555  
Email zmh@ghs.cn  
Website www.ghs.cn

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6204	35,93	0,77	ST/SG/AC.10/11/Rev.6	1118070225	29.08.2018

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed

CONSUMER BATTERIES  
Ellwangen, 11.08.2019  
Place, date  
VARTA Consumer Batteries GmbH & Co. KGaA  
Alfred-Krupp-Str. 9 | 73479 Ellwangen | Germany  
Company stamp

Signature  
(Uwe Knödler, Manager Quality & NPd)

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Cell / Battery

Name CR123A  
Type Lithium metal cell  
Physical description Primary lithium metal cell

## Manufacturer

Name VARTA Consumer Batteries GmbH & Co. KGaA  
Address Alfred-Krupp-Str 9  
73479 Ellwangen, Germany  
Phone +49 (0) 7961 830  
Email info@eu.spectrumbrands.com  
Website https://www.varta-consumer.com

## Test laboratory

Name Shanghai Research Institute of Chemical Industry Testing Co., Ltd.  
Address No. 345 East Yunling Road, Shanghai, 200062, China  
Phone +86 (0) 21 317 65 555  
Email zmh@ghs.cn  
Website www.ghs.cn

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6205	16,59	0,49	ST/SG/AC.10/11/Rev.6	1117070257	05.09.2017

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed

CONSUMER BATTERIES  
Ellwangen, 11.09.2019  
Place, date  
VARTA Consumer Batteries GmbH & Co. KGaA  
Alfred-Krupp-Str. 9 | 73479 Ellwangen | Germany  
Company stamp

Signature  
(Uwe Knödler, Manager Quality & NPd)



# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Cell / Battery

Name CR2  
Type Lithium metal cell  
Physical description Primary lithium metal cell

## Manufacturer

Name VARTA Consumer Batteries GmbH & Co. KGaA  
Address Alfred-Krupp-Str 9  
73479 Ellwangen, Germany  
Phone +49 (0) 7961 830  
Email info@eu.spectrumbrands.com  
Website https://www.varta-consumer.com

## Test laboratory

Name Shanghai Research Institute of Chemical Industry Testing Co., Ltd.  
Address No. 345 East Yunling Road, Shanghai, 200062, China  
Phone +86 (0) 21 317 65 555  
Email zmh@ghs.cn  
Website www.ghs.cn

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6206	10,94	0,3	ST/SG/AC.10/11/Rev.6	1117070258	04.09.2017

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed



Signature  
(Uwe Knödler, Manager Quality & NPd)

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Cell / Battery

Name CR1216  
Type Lithium metal cell  
Physical description Primary lithium metal cell

## Manufacturer

Name VARTA Consumer Batteries GmbH & Co. KGaA  
Address Alfred-Krupp-Str 9  
73479 Ellwangen, Germany  
Phone +49 (0) 7961 830  
Email info@eu.spectrumbrands.com  
Website https://www.varta-consumer.com

## Test laboratory

Name Panasonic Corporation, Automotive & Industrial Systems Company  
Address 1006, Oaza Kadoma, Ladoma-shi, Osaka  
571-8501, Japan  
Phone +81 (0) 669 081 121  
Email -  
Website http://www.panasonic.com

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6216	0,7	0,008	ST/SG/AC.10/11/Rev.5 /Amend.1	CR1216-002	01.01.2018

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed

CONSUMER BATTERIES  
Ellwangen, 01.01.2019  
VARTA Consumer Batteries GmbH & Co. KGaA  
Place, date Alfred-Krupp-Str. 9 | 73479 Ellwangen | Germany  
Company stamp (73479 Ellwangen | Germany)

Signature  
(Uwe Knödler, Manager Quality & NPd)

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Cell / Battery

Name CR1220  
Type Lithium metal cell  
Physical description Primary lithium metal cell

## Manufacturer

Name VARTA Consumer Batteries GmbH & Co. KGaA  
Address Alfred-Krupp-Str 9  
73479 Ellwangen, Germany  
Phone +49 (0) 7961 830  
Email info@eu.spectrumbrands.com  
Website https://www.varta-consumer.com

## Test laboratory

Name VARTA Microbattery GmbH  
Address Daimlerstraße 1, 73479 Ellwangen, Germany  
Phone +49 (0) 7961 9210  
Email info@varta-microbattery.com  
Website www.varta-microbattery.com

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6220	0,8	0,01	ST/SG/AC.10/11/Rev.5 /Amend.1	2016-03-31-01	31.03.2016

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed

  
CONSUMER BATTERIES  
*Ellwangen, 31.03.2019*  
VARTA Consumer Batteries GmbH & Co. KGaA  
Alfred-Krupp-Str. 9 | 73479 Ellwangen | Germany  
Company stamp

  
Signature  
(Uwe Knödler, Manager Quality & NPd)

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Cell / Battery

Name CR1225  
Type Lithium metal cell  
Physical description Primary lithium metal cell

## Manufacturer

Name VARTA Consumer Batteries GmbH & Co. KGaA  
Address Alfred-Krupp-Str 9  
73479 Ellwangen, Germany  
Phone +49 (0) 7961 830  
Email info@eu.spectrumbrands.com  
Website https://www.varta-consumer.com

## Test laboratory

Name VARTA Microbattery GmbH  
Address Daimlerstraße 1, 73479 Ellwangen, Germany  
Phone +49 (0) 7961 9210  
Email info@varta-microbattery.com  
Website www.varta-microbattery.com

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6225	0,9	0,015	ST/SG/AC.10/11/Rev.5 /Amend.1	2016-09-01-01	01.09.2016

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed

  
CONSUMER BATTERIES  
Ellwangen, 01.09.2019  
VARTA Consumer Batteries GmbH & Co. KGaA  
Alfred-Krupp-Str. 9 | 73479 Ellwangen | Germany  
Company stamp

  
Signature  
(Uwe Knödler, Manager Quality & NPd)

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



	<b>Cell / Battery</b>	<b>Product</b>
Name	CR1/3N	V28PXL
Type	Lithium metal cell	Lithium metal cell
Physical description	Primary lithium metal cell	Primary lithium metal cell

## Manufacturer

Name	VARTA Consumer Batteries GmbH & Co. KGaA
Address	Alfred-Krupp-Str 9 73479 Ellwangen, Germany
Phone	+49 (0) 7961 830
Email	info@eu.spectrumbrands.com
Website	<a href="https://www.varta-consumer.com">https://www.varta-consumer.com</a>

## Part I: Cell / Battery

### Test laboratory

Name	Shanghai Research Institute of Chemical Industry Testing Co., Ltd.
Address	No. 345 East Yunling Road, Shanghai, 200062, China
Phone	+86 (0) 21 317 65 555
Email	znh@ghs.cn
Website	<a href="http://www.ghs.cn">www.ghs.cn</a>

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6131	3,0	0,06	ST/SG/AC.10/11/Rev.5	1112120050	28.01.2013

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Part II: Overall product

### Test laboratory

Name VARTA Microbattery GmbH  
Address Daimlerstraße 1, 73479 Ellwangen, Germany  
Phone +49 (0) 7961 9210  
Email info@varta-microbattery.com  
Website www.varta-microbattery.com

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6231	8,8	0,12	ST/SG/AC.10/11/Rev.5 /Amend.1	2016-09-27-01	27.09.2016

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed



  
Signature  
(Uwe Knödler, Manager Quality & NPD)