

## Lithium Ion Battery Test Summary

### LITHIUM CELLS OR BATTERIES TEST SUMMARY IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA

Product Manufacturer: Birchmeier Sprühtechnik AG  
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Lithium Ion cells and Birchmeier Lithium-Ion-batteries Li-Power and LiHD have been successfully tested and comply with UN Model Regulation, Manual of Test and Criteria, Part III subsection 38.3

PERFORMED TESTS			RESULTS	
			Cells	Batteries
38.3.4.1	T1	Altitude Simulation	Pass	Pass
38.3.4.2	T2	Thermal Test	Pass	Pass
38.3.4.3	T3	Vibration	Pass	Pass
38.3.4.4	T4	Shock	Pass	Pass
38.3.4.5	T5	External Short Circuit	Pass	Pass
38.3.4.6	T6	Impact / Crush	Pass	Not applicable
38.3.4.7	T7	Overcharge	Not applicable	Pass
38.3.4.8	T8	Forced Discharge	Pass	Not applicable

The UN38.3 tests were performed at least by one of the following test houses and were tested to UN Manual Test and Criteria Revision 3 Amendment 1 or subsequent revisions or amendments.

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All batteries are compliant with Battery Regulation (EU) 2023/1542 and standard IEC 62133

**Product Test Information - Cells**

Model	Physical Description	Weight	Rating	Test report	
		[kg]	[Wh]	number	date
INR-21700 Samsung 50S	Li-ion cylindrical cell	0,072	18,0	SDI-UN-192426-03	2019-04-19
INR-21700 Samsung 40T3	Li-ion cylindrical cell	0,067	14,4	SDI-UN-170306-01	2017-03-06
INR-18650 Samsung 20R4	Li-ion cylindrical cell	0,045	7,2	SDI-UN-150630-03	2015-06-30
ICR-18650 Tenpower 2000	Li-ion cylindrical cell	0,041	7,4	NO.4789079122-5	2019-07-24

**Product Test Information – Batteries 18V**

Batteries are exchangeable and can be used in all 18 V products

Model number	Physical Description	Weight	Rating	SoC	Test report		
		[kg]	[Wh]	[%]	number	date	regulation
Birchmeier Art. 12073601 CAS 637029000 321001170	Li-Ion 18 V - 8,0 Ah 5S2P	0,977	144,0	> 20 < 30	28246520 001	2018-09-17	UN 3480 UN 3481
Birchmeier Art. 12100701 CAS 637133000 321001610	Li-Ion 18 V - 10,0 Ah 5S2P	0,996	180,0	> 20 < 30	28253888 002 T211-0815/20	2020-09-23 2020-11-04	UN 3480 UN 3481
Birchmeier Art. 12070301 CAS 637026000 321001670	Li-Ion 18 V – 2,0 Ah 5S1P	0,383	36,0	> 20 < 30	HU213J99 004	2021-05-21	UN 3480 UN 3481
Birchmeier Art. 12071401 CAS 637027000 321001680	Li-Ion 18 V – 4,0 Ah 5S2P	0,685	72,0	> 20 < 30	HU2177MB 001 HU219AFS 001 HU210YG9 001 HU21A74Q 001	2021-05-25 2021-05-21 2021-08-06 2021-09-09	UN 3480 UN 3481
Birchmeier Art. 12072501 CAS 637339000 321001690	Li-Ion 18 V – 5,2 Ah 5S2P	0,695	93,6	> 20 < 30	HU216BYZ 001 HU21LMZX 001	2021-07-22 2021-08-06	UN 3480 UN 3481

Signature of responsible person of the Company