

## 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 5 Amendment 2 or subsequent revisions or amendments.

<p>TÜV Rheinland InterCert Kft. Termék üzletág Villamos laboratórium Beke u. 41-43 H-1135 Budapest, Hungary Telephone: +36-1-461-1100 E-Mail: tuv@hu.tuv.com Web: www.tuv.hu</p>	<p>Samsung SDI Safety Center 467, Beonyeong-ro Seobuk-gu, Cheonan-si Chungcheongnam-do, Korea Telephone: +82-41-560-3114 E-Mail: sdimaster@samsung.com Web: www.samsungsdi.com</p>
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**Product Test Information - Cells**

<b>Model</b>	<b>Physical Description</b>	<b>Weight</b>	<b>Rating</b>	<b>Test report</b>	
number		[kg]	[Wh]	number	date
Samsung INR21700-40T	Li-ion cylindrical cell	0,067	14,4	SDI-UN-170306-01	2017-03-06
Samsung INR18650-20R	Li-ion cylindrical cell	0,045	7,2	SDI-UN-150630-03	2015-06-30
Samsung INR18650-25R	Li-ion cylindrical cell	0,045	9,0	SDI-UN-170331-02	2017-03-31

**Product Test Information - Batteries**

<b>Model</b>	<b>Physical Description</b>	<b>Weight</b>	<b>Rating</b>	<b>Test report</b>	
number		[kg]	[Wh]	number	date
Birchmeier Art.Nr. 12071401 CAS 6370270000 Base 321001210	Li-Ion, 18 V / 4,0 Ah 5S2P, Li-Power 121 x 80 x 67 mm	0,648	72,0	28248081 001	2018-11-09
Birchmeier Art.Nr. 12070301 CAS 6370260000 Base 321001210	Li-Ion, 18 V / 2,0 Ah 5S1P, Li-Power 121 x 80 x 67 mm	0,393	36,0	282251003 001	2019-09-27
Birchmeier Art.Nr. 12072501 CAS 637339000 Base 321001220	Li-Ion, 18 V / 5,2 Ah 5S2P, Li-Power 121 x 80 x 67 mm	0,670	93,6	28247087 001	2019-02-20
Birchmeier Art.Nr. 12073601 CAS 637029000 Base 321001170	Li-Ion, 18V / 8,0 Ah 5S2P, LiHD 121 x 80 x 67 mm	0,976	144,0	28246520 001	2017-12-05

**State of charge according to changes of the IATA regulation effective from 01 April 2016**

In accordance with the changes of the IATA dangerous goods regulations effective from 01 April 2016, Birchmeier confirms that all lithium ion batteries, are only sent with a state of charge not to exceed 30% of their rated design capacity.

**Product equipped with Batteries**

<b>Art.Nr.</b>	<b>Product</b>	<b>Battery</b>
12070701	REA 15	12070301
12070801	REB 15	12070301
12089801		
12089901		
12094501		
12095001		
12097601		
12075101		
12070901		
12074001		
12071701		
12090301		
12090701		
12090401		
12090501		
12090601		
12090001		
12090301		
12090401		
12090501		
12090601		
12090701		
12091101		
12092001		
12094601		
12094901		
12071001	REX 15	12072501
12072101		
12071801		
12072701	A 50	12073601
12074101		

Art.Nr.	Product	Battery
12073201		
12073801	A 75	12073601
12073901	A 130	12073601
12072901	BM 1035	12073601
12074201		
12073701		

**Signature of responsible person of the Company**

