



Lithium Battery UN 38.3 Test Summary

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

Product Manufacturer: Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399
Telephone: 425 882 8080
Email: Batteries@microsoft.com
Website: <https://www.microsoft.com/en-us/legal/compliance/batteries>

Models: See Microsoft Product List
Effective Date: April 15, 2021
Version: 2021C

This test summary is valid only for Microsoft’s direct supply chain that pertains to the delivery of original devices to initial end users.

Please note: This Test Summary does not apply to any cells or batteries that were used to replace cells or batteries that were originally supplied with Microsoft Devices.

List of Tests Conducted

All Microsoft product cells and batteries have been successfully tested and comply with the UN Model Regulations, Manual of Test and Criteria, Part III, subsection 38.3.

Performed Tests		Results
38.3.4.1 T1	Altitude Simulation	Pass
38.3.4.2 T2	Thermal Test	Pass
38.3.4.3 T3	Vibration	Pass
38.3.4.4 T4	Shock	Pass
38.3.4.5 T5	External Short Circuit	Pass
38.3.4.6 T6	Impact / Crush	Pass*
38.3.4.7 T7	Overcharge	Pass
38.3.4.8 T8	Forced Discharge	Pass*

**Applicable to cells only*



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Test Laboratories

The UN38.3 tests were performed 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.

Test House	Address	Phone Number	Email	Website
CHENG UEI GROUP FU GANG ELECTRONIC (KUNSHAN) CO., LTD.	No.6 Zhengwei West Road, Jinxi Town, Kunshan City, Jiangsu, 215300 China	+86-51257235288	contactus@foxlink.com	www.foxlink.com/web/en/
Dongguan Amperex Technology Limited Test Center	West Industrial Road 1#, Songsham Lake Industry Park, Dongguan City, Guangdong Province, P. R. China	+86-0769-88989149	Marketing@ATLBattery.com	www.atlbattery.com
DURACELL US Operations Inc.	14 Research Drive, Bethel CT. 06801 USA	+1-203-796-4523	UN38.3_Duracell@duracell.com	www.duracell.com
Dynapack Electronic Technology (Suzhou) Co., Ltd	No. 8 Hua-Gang Road, WuJiang Economical and Technological Development Zone, Suzhou city, JiangSu. PRC. 215200	+86-051263408688	Wesley.Wu@dynapack.com.tw	www.dynapack.com.tw
Guangzhou MCM Certification and Testing Co., Ltd	1 F No. 13, Zhong San Section, Shi Guang Road, Panyu District, Guangzhou City, Guangdong Province, China	+86-20-34777662	markmiao@mcmtek.com	www.mcmtek.com
HUAPU TECHNOLOGY / SIMPLO TECHNOLOGY (CHANG SHU) INC.	No.2 Dong Nan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu, China	+86-0512-52302255	suppliers@simplo.com.tw	www.simplo.com.tw
Kunshan Dynapack Electronic Technology Co., LTD.	No.68 Taoyuan Road, Kunshan Export Processing Zone, Area B, Kunshan, Jiang Su. PRC. 215300	+86-051257725688	Wesley.Wu@dynapack.com.tw	www.dynapack.com.tw
LG Chem Ltd.	LG Twin Tower 20 Yoido-dong Youngdungpo-gu, Seoul, Korea	+82-42-870-6195	kkammy@lgchem.com junyongs@lgchem.com	www.lgchem.com
Panasonic Corporation, Automotive & Industrial Systems Company	1-1 Matsushita-cho, Moriguchi City, Osaka, 570-8511, Japan	+81-6-6994-4560	un38.3_microbattery@ml.jp.panasonic.com	www.panasonic.com/global/home

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Test House	Address	Phone Number	Email	Website
Pony Testing International Group	Bldg1, Court 66, Jindai Road, Zhongguancun Environmental Protection Park, Haidian District, Beijing	+86-10-83055000/82618116	pony@ponytest.com	www.ponytest.com
Samsung SDI Safety Center	508 Sungsungdong, Cheonan Chungcheongnamdo, Korea	031-8006-3100	cp.sdi@samsung.com sdimaster@samsung.com sustainability@samsung.com	www.samsungsdi.com
Shanghai Research Institute of Chemical Industry Testing Centre	West entrance, No.345 East Yunling Road, Shanghai	021-52815377	wyorama@gmail.com xutingmsds@gmail.com binhuyu@gmail.com	www.ghs.cn
Shenzhen Precise Testing Technology Co., Ltd.	Building 1, No. 9, Reservoir Road, Tangwei Community, Gongming Street, Guangming New District, Shenzhen, Guangdong, China	0755-23084910	precise@ptl-global.com	www.ptl-global.com
SIMPLO ELECTRONICS (SHANGHAI), LTD	No.28, Sanzhuang Road., Songjiang Export Processing Zone, Shanghai	+86-21-57748286	suppliers@simplo.com.tw	www.simplo.com.tw
SIMPLO TECHNOLOGY CO., LTD.	No.471, Sec.2, Pa Teh Rd., Hu Kou, Hsinchu Hsien 303, Taiwan	+886(0)3-569-5920	suppliers@simplo.com.tw	www.simplo.com.tw
SIMPLO TECHNOLOGY (CHONG QING) INC.	No.2 Zongbao Avenue, Shapingba District, ChongQing, China	+86-023-61718899	suppliers@simplo.com.tw	www.simplo.com.tw
SIMPLO TECHNOLOGY (CHANGSHU) INC.	No. 888 Dongnan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu, China	+86-512-52302255	suppliers@simplo.com.tw	www.simplo.com.tw



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Product List

The following table provides Microsoft Product Test Information. For products not found in this list, please reach out to batteries@microsoft.com.

Model Number	Physical Description	Cells per Battery	Batteries per Product	Battery Weight (kg)	Wh Rating	Test Report Number	Test Report Date	UNID & Proper Shipping Name
1481	Xbox 360 Wireless Headset with Bluetooth	1	1	0.004	0.74	E04143004519~1	2011/04/28	UN3481 Lithium ion batteries contained in equipment
1514	Surface Pro	2	1	0.22	42.00	QAE-EF02-120319-PKEscalade	2012/03/19	UN3481 Lithium ion batteries contained in equipment
1516	Surface RT	2	1	0.17	31.50	QAE-EF02-120308-PKTaurus	2012/03/08	UN3481 Lithium ion batteries contained in equipment
1556	Xbox One Play & Charge Kit	2	1	0.0308	4.66	KE2012-12-005 KE2012-12-009	2012/12/12 2012/12/13	UN3480 Lithium ion batteries
1572	Surface 2	2	1	0.16	31.30	QAE-EF02-130628-PKPLUTO RTN-UN-1306-019 MT0083833	2013/06/28 2013/06/25 2013/06/26	UN3481 Lithium ion batteries contained in equipment
1601	Surface Pro 2	2	1	0.22	42.00	QAE-EF02-120319-PKEscalade	2012/03/19	UN3481 Lithium ion batteries contained in equipment
1602	Surface Power Cover	4	1	0.21	29.94	MT0062859	2012/04/13	UN3481 Lithium ion batteries contained in equipment
1619	Microsoft Band	1	1	0.0039	0.36	1114110005 I04143068121D~1 I04143067821D~1	2014/11/24 2014/04/28 2014/04/28	UN3481 Lithium ion batteries contained in equipment
1631	Surface Pro 3	4	1	0.19	42.16	QAE-EF02-140129-PKX883815 SMIU-1408001 SMIU-1403001	2014/01/29 2014/08/04 2014/03/25	UN3481 Lithium ion batteries contained in equipment
1640	Surface Hub Device Pen	1	1	0.0255	1.18	H09093022621D~1	2013/09/26	UN3481 Lithium ion batteries contained in equipment



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1645	Surface 3	2	1	0.134	27.50	SMIU-1401002 SMIU-1406001 SMIU-1401001	2014/01/06 2014/06/23 2014/01/08	UN3481 Lithium ion batteries contained in equipment
1657	Surface 3 with LTE	2	1	0.134	27.50	SMIU-1401002 SMIU-1406001 SMIU-1401001	2014/01/06 2014/06/23 2014/01/08	UN3481 Lithium ion batteries contained in equipment
1688	HoloLens	6	1	0.012	13.00	UN-M1357BN	2014/06/09	UN3481 Lithium ion batteries contained in equipment
1703	Surface Book	2	1	0.088	18.90	UN-DAK822470K MI-CU-15-01-013	2014/12/12 2015/01/11	UN3481 Lithium ion batteries contained in equipment
1704	Surface Book Keyboard Base	4	1	0.2455	52.76	MI-CU-15-02-019 MI-CU-15-01-047	2015/02/10 2015/01/23	UN3481 Lithium ion batteries contained in equipment
1705	Surface Book Keyboard Base	4	1	0.2455	52.76	MI-CU-15-02-019 MI-CU-15-01-047	2015/02/10 2015/01/23	UN3481 Lithium ion batteries contained in equipment
1707	Surface Studio Surface Studio 2	1	1	0.0032	0.675	Coin_TS-2020-REV1	2019/11/20	UN3091 Lithium metal batteries contained in equipment
1721	Microsoft Band 2 (Small)	1	1	0.0034	0.67	MZIA2H4A51770721	2015/06/29	UN3481 Lithium ion batteries contained in equipment
1721	Microsoft Band 2 (Medium / Large)	1	1	0.0038	0.76	MZIA2H4A51766721	2015/06/29	UN3481 Lithium ion batteries contained in equipment
1724	Surface Pro 4	2	1	0.1788	39.47	MI-CU-15-02-013 DYNR01(LGC)	2015/02/09 2015/03/17	UN3481 Lithium ion batteries contained in equipment
1727	Xbox One Play & Charge Kit	2	1	0.0308	4.66	UN-Zest	2015/04/10	UN3480 Lithium ion batteries



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1769	Surface Laptop (i5/i7) Surface Laptop 2 (i5/i7)	4	1	0.1995	45.19	UN-DYNK01 MI-CU-15-11-024 MI-CU-16-04-015	2016/04/19 2015/11/12 2016/04/21	UN3481 Lithium ion batteries contained in equipment
1782	Surface Laptop (CoreM)	4	1	0.1995	45.19	UN-DYNK01 MI-CU-15-11-024 MI-CU-16-04-015	2016/04/19 2015/11/12 2016/04/21	UN3481 Lithium ion batteries contained in equipment
1785	Surface Book Performance Base	4	1	0.264	59.4	MI-CU-16-06-022 S-16040078	2016/06/27 2016/04/25	UN3481 Lithium ion batteries contained in equipment
1793	Surface Book 2 15" - Display	2	1	0.098	23.2	UN-DYNH01	2016/07/13	UN3481 Lithium ion batteries contained in equipment
1795	Non-GPU Base for Surface Book 2 15"	6	1	0.250	62.2	MI-CU-16-07-011 MI-CU-16-07-012	2016/07/19 2016/07/19	UN3481 Lithium ion batteries contained in equipment
1796	Surface Pro (5 th Gen) Surface Pro 6	4	1	0.185	45	UN-DYNM02 MI-CU-16-05-018	2016/11/02 2016/05/16	UN3481 Lithium ion batteries contained in equipment
1797	Xbox Elite Wireless Controller Series 2	1	1	0.04	7.79	DYND01	2019/01/04	UN3481 Lithium ion batteries contained in equipment
1807	Surface Pro (LTE)	4	1	0.185	45	UN-DYNM02 MI-CU-16-05-018	2016/11/02 2016/05/16	UN3481 Lithium ion batteries contained in equipment
1813	GPU Base for Surface Book 2 15"	6	1	0.250	62.2	MI-CU-16-07-011 MI-CU-16-07-012	2016/07/19 2016/07/19	UN3481 Lithium ion batteries contained in equipment
1824	Surface Go	2	1	0.100	26.77	SQUU-1711003	2017/11/06	UN3481 Lithium ion batteries contained in equipment
1825	Surface Go LTE	2	1	0.100	26.77	SQUU-1711003	2017/11/06	UN3481 Lithium ion batteries contained in equipment



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Model Number	Physical Description	Cells per Battery	Batteries per Product	Battery Weight (kg)	Wh Rating	Test Report Number	Test Report Date	UNID & Proper Shipping Name
1830	Surface Headphones	1	1	0.0094	1.9	RTN-UN-1704-021	2017/05/17	UN3481 Lithium ion batteries contained in equipment
1832	Surface Book 2 13" - Tablet	4	1	0.082	18	MI-CU-17-02-001 MI-CU-17-02-017	2017/02/05 2017/02/22	UN3481 Lithium ion batteries contained in equipment
1834	Non-GPU Bottom for Surface Book 2 13"	6	1	0.235	51	MI-CU-17-02-013	2017/02/19	UN3481 Lithium ion batteries contained in equipment
1835	GPU Bottom for Surface Book 2 13"	6	1	0.237	57.3	MI-CU-17-04-003 MI-CU-17-04-006	2017/04/21 2017/04/23	UN3481 Lithium ion batteries contained in equipment
1836	Xbox Adaptive Controller	1	1	0.034	7.79	UN-DYNZ01	2017/12/25	UN3481 Lithium ion batteries contained in equipment
1843	Surface Hub 2S	1	1	0.0032	0.675	Coin_TS-2020-REV1	2019/11/20	UN3091 Lithium metal batteries contained in equipment
1852	Surface Earbuds	1	2	0.0016	0.222	1116080184	2016/09/03- 2016/10/17	UN3481 Lithium ion batteries contained in equipment
1853	Surface Slim Pen	1	1	0.0005	0.038	CG-320A-001	2015/11/13	UN3481 Lithium ion batteries contained in equipment
1855	HoloLens 2	4	1	0.081	16.7	DYNT01	2018/05/14	UN3481 Lithium ion batteries contained in equipment
1866	Surface Pro 7	4	1	0.190	45	UN-DYNM03 PE-CU-19-02-001	2019/03/29 2019/01/29	UN3481 Lithium ion batteries contained in equipment
1867	Surface Laptop 3 13.5" Fabric	6	1	0.220	45.8	UN-DYNT02-ATL MI-CU-19-03-007 MI-CU-19-03-005 MI-CU-19-03-012 MI-CU-19-03-011	2019/07/16 2019/03/18 2019/03/15 2019/03/18 2019/03/18	UN3481 Lithium ion batteries contained in equipment



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Model Number	Physical Description	Cells per Battery	Batteries per Product	Battery Weight (kg)	Wh Rating	Test Report Number	Test Report Date	UNID & Proper Shipping Name
1868	Surface Laptop 3 13.5" Metal	6	1	0.220	45.8	UN-DYNT02-ATL MI-CU-19-03-007 MI-CU-19-03-005 MI-CU-19-03-012 MI-CU-19-03-011	2019/07/16 2019/03/18 2019/03/15 2019/03/18 2019/03/18	UN3481 Lithium ion batteries contained in equipment
1872	Surface Laptop 3 15" Intel Core	6	1	0.220	45.8	UN-DYNT02-ATL MI-CU-19-03-007 MI-CU-19-03-005 MI-CU-19-03-012 MI-CU-19-03-011	2019/07/16 2019/03/18 2019/03/15 2019/03/18 2019/03/18	UN3481 Lithium ion batteries contained in equipment
1873	Surface Laptop 3 15" AMD Ryzen	6	1	0.220	45.8	UN-DYNT02-ATL MI-CU-19-03-007 MI-CU-19-03-005 MI-CU-19-03-012 MI-CU-19-03-011	2019/07/16 2019/03/18 2019/03/15 2019/03/18 2019/03/18	UN3481 Lithium ion batteries contained in equipment
1876	Surface Pro X	4	1	0.175	38.2	MI-CU-18-08-002 S-19030247A0	2018/08/07 2019/04/24	UN3481 Lithium ion batteries contained in equipment
1881	Xbox Dev Kit (Series X)	1	1	0.003	0.69	LB160059	2006/08/23	UN3091 Lithium metal batteries contained in equipment
1883	Xbox Test Kit (Series S)	1	1	0.003	0.69	LB160059	2006/08/23	UN3091 Lithium metal batteries contained in equipment
1899	Surface Book 3 i7 15" Top	2	1	0.0965	23.2	UN-DYNH02-CoxMX	2019/05/28	UN3481 Lithium ion batteries contained in equipment
1900	Surface Book 3 i5 & i7 13.5" Top	2	1	0.088	18	MI-CU-17-02-001 MI-CU-17-02-017	2017/02/05 2017/02/22	UN3481 Lithium ion batteries contained in equipment
1901	Surface Go 2	2	1	0.120	26.8	QU-CU-19-06-003 UN-DYNU01-ATL	2019/06/11 2019/08/22	UN3481 Lithium ion batteries contained in equipment



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1907	Surface Book 3 GPU 15" Base	6	1	0.250	62.2	MI-CU-16-07-011 MI-CU-16-07-012	2016/07/19 2016/07/19	UN3481 Lithium ion batteries contained in equipment
1908	Surface Book 3 Non-GPU 13.5" Base	4	1	0.235	54.8	MI-CU-17-02-013	2017/02/19	UN3481 Lithium ion batteries contained in equipment
1909	Surface Book 3 GPU 13.5" Base	6	1	0.236	57.3	MI-CU-17-04-003 MI-CU-17-04-006	2017/04/21 2017/04/23	UN3481 Lithium ion batteries contained in equipment
1916	Surface Earbuds Charging Case	1	1	0.01	1.1	1119090104	2019/10/10	UN3481 Lithium ion batteries contained in equipment
1919	Surface Headphones 2 Surface Headphones 2+	1	1	0.0104	2.14	RTN-UN-1905-4001	2019/10/25	UN3481 Lithium ion batteries contained in equipment
1926	Surface Go 2 w/ NFC	2	1	0.120	26.8	QU-CU-19-06-003 UN-DYNU01-ATL	2019/06/11 2019/08/22	UN3481 Lithium ion batteries contained in equipment
1927	Surface Go 2 LTE	2	1	0.120	26.8	QU-CU-19-06-003 UN-DYNU01-ATL	2019/06/11 2019/08/22	UN3481 Lithium ion batteries contained in equipment
1930	Surface Duo	1	2	0.044 0.014	10.7 2.8	MI-CU-19-09-016 MI-CU-19-09-018 MI-CU-19-09-012 MI-CU-19-09-014	2019/09/30 2019/09/30 2019/09/30 2019/09/30	UN3481 Lithium ion batteries contained in equipment
1934	Surface Hub 2S 85"	1	1	0.0032	0.675	Coin_TS-2020-REV1	2019/11/20	UN3091 Lithium metal batteries contained in equipment
1943	Surface Laptop Go	4	1	0.185	39.7	WI-CU-20-03-005 UN-DYNZ02-A2	2020/03/25 2020/03/18	UN3481 Lithium ion batteries contained in equipment
1944	Xbox Wireless Headset	1	1	0.016	3.77	DGXNY20200106U01	2020/01/20	UN3481 Lithium ion batteries contained in equipment



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1950	Surface Laptop 4 13.5" Fabric, Intel Core	6	1	0.220	45.8	UN-DYNT02-ATL MI-CU-19-03-007 MI-CU-19-03-005 MI-CU-19-03-012 MI-CU-19-03-011	2019/07/16 2019/03/18 2019/03/15 2019/03/18 2019/03/18	UN3481 Lithium ion batteries contained in equipment
1951	Surface Laptop 4 13.5" Metal, Intel Core	6	1	0.220	45.8	UN-DYNT02-ATL MI-CU-19-03-007 MI-CU-19-03-005 MI-CU-19-03-012 MI-CU-19-03-011	2019/07/16 2019/03/18 2019/03/15 2019/03/18 2019/03/18	UN3481 Lithium ion batteries contained in equipment
1953	Surface Laptop 4 15" Metal, AMD Ryzen	6	1	0.220	45.8	UN-DYNT02-ATL MI-CU-19-03-007 MI-CU-19-03-005 MI-CU-19-03-012 MI-CU-19-03-011	2019/07/16 2019/03/18 2019/03/15 2019/03/18 2019/03/18	UN3481 Lithium ion batteries contained in equipment
1954	Microsoft Designer Compact Keyboard	1	4	0.0029	0.7	Coin_TS-2020-REV1	2019/11/20	UN3091 Lithium metal batteries contained in equipment
1958	Surface Laptop 4 13.5" Fabric, AMD Ryzen	6	1	0.220	45.8	UN-DYNT02-ATL MI-CU-19-03-007 MI-CU-19-03-005 MI-CU-19-03-012 MI-CU-19-03-011	2019/07/16 2019/03/18 2019/03/15 2019/03/18 2019/03/18	UN3481 Lithium ion batteries contained in equipment
1959	Surface Laptop 4 13.5" Metal, AMD Ryzen	6	1	0.220	45.8	UN-DYNT02-ATL MI-CU-19-03-007 MI-CU-19-03-005 MI-CU-19-03-012 MI-CU-19-03-011	2019/07/16 2019/03/18 2019/03/15 2019/03/18 2019/03/18	UN3481 Lithium ion batteries contained in equipment
1960	Surface Pro 7+	4	1	0.220	48.9	MI-CU-20-02-002 MI-CU-20-02-001 UN-DYNH03-A1	2020/02/19 2020/02/18 2020/03/06	UN3481 Lithium ion batteries contained in equipment
1961	Surface Pro 7+ with LTE Advanced	4	1	0.220	48.9	MI-CU-20-02-002 MI-CU-20-02-001 UN-DYNH03-A1	2020/02/19 2020/02/18 2020/03/06	UN3481 Lithium ion batteries contained in equipment



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1969	Microsoft Number Pad	1	1	0.0029	0.7	Coin_TS-2020-REV1	2019/11/20	UN3091 Lithium metal batteries contained in equipment
1979	Surface Laptop 4 15" Metal, Intel Core	6	1	0.220	45.8	UN-DYNT02-ATL MI-CU-19-03-007 MI-CU-19-03-005 MI-CU-19-03-012 MI-CU-19-03-011	2019/07/16 2019/03/18 2019/03/15 2019/03/18 2019/03/18	UN3481 Lithium ion batteries contained in equipment
1998	Microsoft Modern Wireless Headset	1	1	0.0104	2.14	RTN-UN-1905-4001	2019/10/25	UN3481 Lithium ion batteries contained in equipment

Preparation Date: April 15, 2021

Prepared by: Kayla Dieball

Revision: 2021C

X Wendy Phippen

Wendy Phippen

Director, Devices Environmental Compliance ...